



1501 Red River Street, MC: Z0100 • Austin, TX 78712 • T: 512-495-5555

To: Janet M. Dukerich, Ph.D.  
Professor and Senior Vice Provost for Faculty Affairs  
Office of Executive Vice President and Provost

From: Clay Johnston, MD, PhD  
Vice President and Dean  
Dell Medical School

Date: July 11, 2018

Re: UTS 144 Request – Charles Nemeroff, M.D., Ph.D.

The University of Texas at Dell Medical School is requesting to offer Charles Nemeroff, MD, PhD an appointment at the rank of Professor with tenure in the Department of Psychiatry. Dr. Nemeroff will direct the Institute for Early Life Adversity within Dell Medical School in collaboration with the Mulva Clinics for Neuroscience to establish a world-class research institute that translates neuroscience advances and understandings of the impact of early life adversity to clinical studies of potential interventions.

Dr. Nemeroff will report to the Associate Vice President for Regional Mental Health and Department Chair of Psychiatry, Dr. Stephen M. Strakowski, for his effort in establishing the research institute, sustaining the institute long-term, and for his clinical time establishing a comprehensive diagnostic and treatment evaluation program. Dr. Nemeroff will report to myself, as the Vice President for Medical Affairs and Dean of Dell Medical School, for his work in assisting in the development and implementation of research strategy and cross-university research projects as a senior advisor for research strategy.

It is difficult to overstate Dr. Nemeroff's tremendous contributions to his field. Dr. Nemeroff's curriculum vitae provides detail on his extraordinary level of productivity and national/international reputation within the field. I have highlighted a few important points below.

Dr. Nemeroff began his career at the University of North Carolina at Chapel Hill, where he earned a doctoral degree in neurobiology in 1976 and a medical degree in 1981. After completing a research fellowship in neurology, Dr. Nemeroff went on to residency training in psychiatry at the University of North Carolina and completed a subsequent residency at Duke University. Dr. Nemeroff earned his board certification in psychiatry and neurology in 1986. He joined the faculty at Duke University as an assistant professor in 1983, where he served as a senior fellow in the Center for Aging and Human Development and Director of the Laboratory of Psychoneuroendocrinology. In 1988, Dr. Nemeroff became chief of the Division of Biological Psychiatry in the Department of Psychiatry at Duke University. He achieved the rank of Professor in 1991. From 1991-2008, Dr. Nemeroff served as the Renunette W. Harris Professor and Chairman in the Department of Psychiatry and Behavioral Sciences at Emory University. In 2009, Dr. Nemeroff became the Leonard M. Miller Professor, with Tenure, and Chairman of the Department of

Psychiatry and Behavioral Sciences at the University of Miami, in which role he continues to serve today. From 2011-2016, Dr. Nemeroff was Director for the Center on Aging at the University of Miami, and he is currently the Center's clinical director. In his current role as department chair, Dr. Nemeroff also serves as Chief of Psychiatry for Jackson Health Systems and Chief of Psychiatry for University of Miami Hospital.

Dr. Nemeroff's productivity in publication is unmatched. He has published extensively in the highest quality journals in science and medicine, including *New England Journal of Medicine*, *JAMA*, *Science*, *Nature*, *Nature Neuroscience*, and *Nature Communications*, as well as the highest-ranked specialty journals in psychiatry and neuroscience, including *Neuron*, *JAMA Psychiatry*, the *American Journal of Psychiatry*, *Biological Psychiatry*, *Translational Psychiatry* and *Molecular Psychiatry*. Dr. Nemeroff's h-Index of 140 puts him among the most frequently cited clinical neuroscientists and psychiatric researchers in the world.

Dr. Nemeroff has maintained nearly continuous extramural funding from the National Institutes of Health. He has been the principal investigator of two Conte Center Grants (perhaps the most prestigious awards possible from the NIMH), two U19 center grants on drug development, and a CIDAR center grant on Prediction of Antidepressant Response. He was recently awarded another grant in collaboration with UT Senior Scientist, Frances Champagne, of the Department of Psychology. Most recently, he is a Co-PI of a \$3.8M NIH grant looking at stem cell therapy to treat alcoholism-depression comorbidities, and he is expecting a notice of award on an NIH R01 from examining Post Traumatic Stress Disorder (PTSD) through post-mortem brain multi-omics.

Dr. Nemeroff has a long and distinguished career of mentorship. He leads the APA Research Colloquium for Young Investigators, and he founded the ADAA Career Development Leadership Program. He has mentored several major figures in the field, including Kerry Ressler, M.D., PhD. at Harvard University and Elisabeth Binder, M.D., PhD., of the Max Plank Institute in Munich. His mentees have launched highly successful independent research careers around the world, as evidenced by the number of first author lists on which Dr. Nemeroff served as senior scientist. Dr. Nemeroff established a strong record of attracting and mentoring outstanding faculty recruits, building grant and research portfolios, and developing outstanding training programs. Dr. Nemeroff was recently awarded the American College of Neuropsychopharmacology (ACNP) Julius Axelrod Mentorship Award, one of the field's highest acknowledgements for the development of young scientists.

Dr. Nemeroff is also an excellent clinician. His patients are referred to him from all over the world to seek his guidance for hard-to-treat and treatment resistant illnesses, particularly mood and anxiety disorders.

The Dell Medical School is very fortunate to have this unique opportunity to bring such a world-renowned scientist, clinician, mentor, and administrator to UT Austin. As part of this recruitment, we are requesting to offer Dr. Nemeroff a total eligible compensation package of \$500,000 annual salary at 100%. The total annual compensation is comprised of a base compensation rate of \$300,000 as a Professor of Psychiatry, an administrative stipend of \$150,000 annually while serving as Director of the Early Life Adversity Research Institute, and an annual incentive payment of \$50,000 to be paid annually that is guaranteed for the first two fiscal years, through August 21, 2020. The first year will be pro-rated based on hire date. In subsequent years, incentive payments will be based on achieving pre-defined, mutually agreed-upon performance goals developed by Drs. Nemeroff and Strakowski, consistent with the faculty compensation plan. Should Dr. Nemeroff no longer serve in his administrative capacities, he will be compensated at his base compensation (for

100% effort) for his role as a faculty member and will work with the Chair of Psychiatry on productivity expectations in this role.

The Dell Medical School seeks to pay within the 50<sup>th</sup> to 75<sup>th</sup> percentiles of the American Association of Medical Colleges (AAMC) reported compensation, reserving the upper end of the range for competitive recruits such as Dr. Nemeroff. For the expectations that we have set forth for Dr. Nemeroff in establishing and leading a world-class Institute for Early Life Adversity, we have chosen to utilize a Chair benchmark for Dr. Nemeroff's leadership role given that similar compensable factors of leadership and scope are utilized in those positions. The AAMC 75<sup>th</sup> percentile for Psychiatry Chair positions is \$522,000 which places our total compensation request of \$500,000 within our standard compensation methodology. Additionally, should Dr. Nemeroff no longer serve in his leadership role, the \$300,000 base salary for Dr. Nemeroff falls at the AAMC 75<sup>th</sup> percentile for Professor of Psychiatry; the 75<sup>th</sup> percentile for a Professor of Psychiatry is currently \$305,000. Due to his leadership ability and caliber of work as a luminary in his field, I respectfully seek your support and presentation of this request to the Executive Vice Chancellor for approval. Please do not hesitate to let me know if you have any questions.



# The University of Texas at Austin Dell Medical School

1501 Red River Street, MC: 20100 • Austin, TX 78712 • T: 512.495.5555

CONFIDENTIAL

## "Term Sheet" for Charles Nemeroff, MD, PhD

June 15, 2018

This term sheet is the basis for discussion between The University of Texas at Austin and Dr. Charles Nemeroff to appoint him as a faculty member in the Dell Medical School and to have him set up a world-class research institute into the study of the neurobiological, psychological and social impact of early life adversity. This term sheet does not represent a commitment or obligation by Dr. Nemeroff or by The University of Texas at Austin. It is expected these terms will be put into a formal offer letter from The University of Texas at Austin upon conferral of tenure and in accordance with the UT System Rule 144 process and procedures.

### **Appointment and Reporting**

Full time (100%) 12-month administrative appointment as Director of the Early-Life Adversity Research Institute studying the impact of early life adversity initially based in the Department of Psychiatry, but expected to extend across The University of Texas at Austin (UTA) campus. Dr. Nemeroff will hold a concurrent 12-month faculty appointment at The University of Texas at Austin Dell Medical School in the Department of Psychiatry and the Mulva Clinic for Neurosciences. Dr. Stephen Strakowski, Department Chair, has recommended an initial rank of Professor of Psychiatry with tenure. Final assignment of academic rank is determined upon review and approval by the Dell Medical School Appointment, Promotion and Tenure committee and the University Provost and will be defined in the formal offer letter upon receipt of three letters of reference from external reviewers. Dr. Nemeroff's curriculum vitae will be submitted for pre-review to the Provost's Office to ensure appropriateness of appointment of rank and tenure. Dr. Nemeroff is expected to provide letters of academic review from internal and external sources who will offer detailed assessments, evaluating him for this tenured position.

Dr. Nemeroff will be appointed to the Medical Service Research and Development Plan (MSRDP), Dell Medical School's faculty practice plan. Please see [MSRDP bylaws](#) for more information.

The following expectations are outlined for Dr. Nemeroff's responsibilities and time allocation in his first three years. Effort allocations may evolve over time. Specific assignments will be made at the Department Chair's and Dean's discretion.

### **Research and Institute Leadership: 60%**

- Establish a world-class research institute that translates neuroscience advances and understandings of the impact of early life (including in-utero) adversity to clinical studies of potential interventions. Recruit at least 4 to 6 world-class faculty to the institute that may include individuals with primary appointments in the main campus upon agreement and approval with other college deans. Work closely with the Dell Medical School Development team to raise at least a \$5 million endowment to help support and sustain the institute long-term; included are plans to establish at least one endowed chair. Develop clinical interventions through the Mulva Clinics as well as other UTHA clinics.

### **Dean's Office: 10%**

- Assist Dean Johnston in the development and implementation of research strategy and cross-university research projects as a senior advisor for research strategy.

**Clinical Time: 20%**

- Establish a Comprehensive Diagnostic and Treatment Evaluation Program at the Dell Medical School (similar to what was done at U. Miami) and continue to provide national consultation services, both directly and with other expert providers at UT Health Austin.
- Provide other clinical care as agreed upon with the Department Chair.

**Faculty Time: 10%**

- Provide committee service within the Department of Psychiatry and Dell Medical School, medical student and resident teaching, and other university service.

Dr. Nemeroff will report to Dr. Clay Johnston, Vice President for Medical Affairs and Dean of Dell Medical School, for his work in the Dean's office and to Dr. Stephen M. Strakowski, Associate Vice President for Regional Mental Health and Department Chair of Psychiatry, for his remaining effort. He will collaborate with the Director and Executive Board of the Mulva Neuroscience Clinics as well as other College Deans in his efforts to establish the Early-life Adversity Research Institute.

**Salary and Other Commitments**

Dr. Nemeroff will be eligible for a total annual compensation of \$500,000, consisting of a guaranteed 12-month academic rate of \$300,000, an annual \$150,000 administrative stipend while serving as Director of the Early-life Adversity Research Institute, and an annual incentive payment of \$50,000 to be paid annually that is guaranteed for the first two fiscal years, through August 31, 2020. The first year will be pro-rated based on hire date. In subsequent years, incentive payments will be based on achieving pre-defined, mutually agreed-upon performance goals developed by Drs. Nemeroff and Strakowski, consistent with the faculty compensation plan. Should Dr. Nemeroff no longer serve in his administrative capacities as Director, he will be eligible for his base salary of \$300,000 (for 100% effort), commensurate with other senior, distinguished faculty and will work with the Chair of Psychiatry on productivity expectations in this role. Merit increases of salary are subject to the faculty compensation plan, performance and the annual policy on salary increases issued by the University President.

Dell Medical School will provide up to \$5 million in start-up funds to launch the Institute to be used for up to four years. These funds will be used to fund his annual compensation, administrative support, start-up and salary packages for faculty recruited into the Department of Psychiatry, and start-up contributions to faculty jointly hired with the main campus. If Dr. Nemeroff is successful in securing STARS and GURI (NAM matching) funds, his start-up funds may be increased to \$6 million.

The Department will provide an office workspace with computers and supplies separate from these designated start-up funds, as well as research space for clinical studies. We estimate that initial space requirements to establish the Institute in the HDB will include 5-6 faculty offices, laboratory bench space for 2-3 research scientists, with more space available as the program grows, and practice space for Dr. Nemeroff and any clinic recruits to see patients.

Salary support beyond the startup phase will be provided upon conferral of tenure; the Department will provide \$80,000 annual salary support for the rank of Professor with tenure. After five years, Dr. Nemeroff will be expected to maintain sufficient funding for the remaining portion of his salary through a combination of administrative stipends, clinical activities, sponsored research projects, and other support from outside sources.

As a faculty member of Dell Medical School, Dr. Nemeroff will be provided \$3,500 annually for continuing professional development as part of the Dell Medical School Professional Education Fund. These funds can be used to cover conference attendance and travel, professional society memberships, journal subscriptions, and other related items. All certification and licensure required for the practice of medicine will be supported financially by the Department, which is not drawn from professional development funding.

Dr. Nemeroff will be entitled to all employee benefits authorized by the state legislature. As a new employee, he will have 31 calendar days from the initial date of his appointment to enroll for insurance coverage.

Outside activity income will be required to be disclosed, and if applicable, approved in advance. In most cases, Dell Medical School will require that income-generating activities with third parties be contracted through Dell Medical School. Income for certain professional activities must be assigned to the faculty practice plan. These policies are currently under development, but we anticipate that outside income equal to or below 20% of base compensation will likely not be considered a conflict of commitment, but income beyond this will trigger additional approval requirements. Dr. Nemeroff will be expected to follow any other Dell Medical School and University of Texas at Austin policies for managing all outside activity relationships and payments that are not met by this expectation.

#### **Relocation and Transition**

It is expected that Dr. Nemeroff's appointment would begin on or around October 1, 2018. Relocation expenses not to exceed \$35,000 will be reimbursed by the Chair's Office. Employer-provided payments for moving expenses and relocation are considered taxable to the employee. Expenses for moving household goods and personal effects may be paid as an out-of-pocket reimbursement or directly to the moving company. Please present receipts to the Chair's office for reimbursement.

#### **Other Requirements**

All UT appointments are subject to criminal background check and confirmation of degrees and licenses. Three (3) reference letters will be required to finalize the offer letter; please submit to Cathy Stacy at [cathy.stacy@austin.utexas.edu](mailto:cathy.stacy@austin.utexas.edu) (to be sent by the referee).

No later than the date of hire, Dr. Nemeroff will be required to complete an Agreement of Participation which assigns a member provider's professional income to the MSRDP. (See §3.1 of the bylaws for information on membership.)

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Stephen M. Strakowski, MD  
Associate Vice President, Regional Mental Health  
Chair, Department of Psychiatry  
Dell Medical School



6/23/18

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Charles B. Nemeroff, MD, PhD

Date

*June 7, 2018*

**Charles B. Nemeroff, M.D., Ph.D.**

Leonard M. Miller Professor and Chairman  
Department of Psychiatry and Behavioral Sciences  
Professor of Biochemistry and Molecular Biology  
Clinical Director, Center on Aging  
University of Miami Miller School of Medicine  
Miami, Florida 33136

Curriculum Vitae

Charles B. Nemeroff, M.D., Ph.D.

Leonard M. Miller Professor and Chairman  
Department of Psychiatry and Behavioral Sciences  
Director, Center on Aging  
University of Miami Miller School of Medicine  
Miami, Florida 33136

Curriculum Vitae

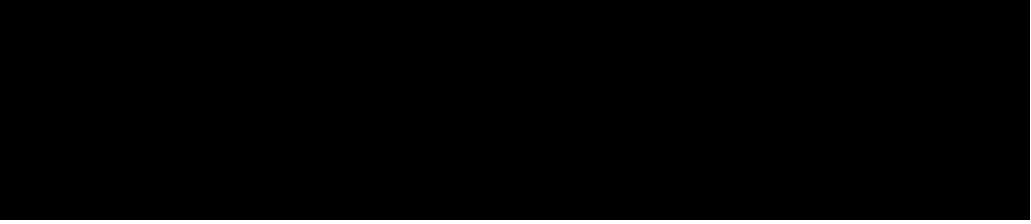
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## **PERSONAL INFORMATION**

NAME: **Charles Barnet Nemeroff**

PLACE OF BIRTH: Bronx, New York



## **EDUCATION**

George Washington High School, New York, New York; *Academic Diploma*, June 1966

City College of New York, New York, New York; *Bachelor of Science (Biology)*, June 1970

Northeastern University, Boston, Massachusetts; *Master of Science (Biology)*, September 1973

University of North Carolina, Chapel Hill, North Carolina; *Doctor of Philosophy (Major: Neurobiology; Minor: Biochemistry)*, August 1976

University of North Carolina, School of Medicine, Chapel Hill, North Carolina; *Doctor of Medicine*, May 1981

Resident in Psychiatry, North Carolina Memorial Hospital, University of North Carolina, School of Medicine, Chapel Hill, North Carolina, 1981 - 1983

Resident in Psychiatry, Duke University Medical Center, Durham, North Carolina, December 1983 – 1985

Doctorate Honoris Causa, Maimonides University, Buenos Aires, Argentina, March 2015

## **PROFESSIONAL EXPERIENCE**

Research Assistant, Department of Ichthyology, American Museum of Natural History, New York, New York, 1968 - 1971

Research Assistant, Neurochemistry Laboratory, McLean Hospital, Harvard Medical School, Belmont, Massachusetts, 1971 - 1972

Research Associate, Department of Surgery, Beth Israel Hospital, Harvard Medical School, Boston, Massachusetts, 1972 - 1973

Teaching Assistant in Biology, Northeastern University, Boston, Massachusetts, 1972 - 1973

Post-doctoral Fellowship (National Institute of Neurologic, Communicative Disorders and Stroke), Biological Sciences Research Center, University of North Carolina, School of Medicine, Chapel Hill, North Carolina, 1976 - 1977

Research Fellow, Biological Sciences Research Center, University of North Carolina, School of Medicine, 1977 - 1983

Clinical Instructor in Psychiatry, University of North Carolina, School of Medicine, February - December 1983

Assistant Professor, Department of Pharmacology, Duke University Medical Center, Durham, North Carolina, December 1983 - June 1986

Senior Fellow, Center for Aging and Human Development, Duke University Medical Center, Durham, North Carolina, December 1983 - 1991

Director, Laboratory of Psychoneuroendocrinology, Department of Psychiatry, Duke University Medical Center, Durham, North Carolina, December 1983 - 1991

Associate Professor, Department of Psychiatry, Duke University Medical Center, Durham, North Carolina, 1985 - 1989

Associate Professor, Department of Pharmacology, Duke University Medical Center, Durham, North Carolina, 1986 - 1989

Faculty Member, Toxicology Training Program, Duke University Medical Center, Durham, North Carolina, 1986 - 1991

Chief, Division of Biological Psychiatry, Department of Psychiatry, Duke University Medical Center, 1988 - 1991

Professor, Department of Psychiatry, Duke University Medical Center, Durham, North Carolina, 1989 - 1991

Professor, Department of Pharmacology, Duke University Medical Center, Durham, North Carolina, 1989 - 1991

Reunette W. Harris Professor, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, 1991 - 2009

Professor and Chairman, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, Georgia, 1991 - 2008

Faculty member, Graduate Program in Neuroscience and Molecular Pharmacology and Toxicology, Emory University School of Medicine, 1991 - 2009

Associate, Winship Cancer Center, Emory University School of Medicine, 1993 - 2009

Leonard M. Miller Professor with Tenure and Chairman, Department of Psychiatry and Behavioral Sciences, University of Miami Miller School of Medicine, Miami, Florida, 2009 - Present

Interim Director, Center on Aging, University of Miami Miller School of Medicine, Miami, Florida, 2010

Director, Center on Aging, University of Miami Miller School of Medicine, Miami, Florida, 2011 – 2016

Clinical Director, Center on Aging, University of Miami Miller School of Medicine, Miami, Florida, 2011 - present

Chief of Psychiatry, Jackson Health Systems, Miami, Florida, 2009 - Present

Chief of Psychiatry, University of Miami Hospital, Miami, Florida, 2010 - Present

Associate Director, MD, PhD Program, University of Miami, 2014 - 2016

Member, Sylvester Cancer Center, University of Miami Miller School of Medicine 2012 - Present

Member, Graduate Program in Neuroscience, University of Miami 2014 - Present

Professor, Department of Biochemistry and Molecular Biology, University of Miami Miller School of Medicine 2016 - Present

### **HONORS AND AWARDS**

American Board of Psychiatry and Neurology

- Diplomat in Psychiatry - 1987 Certificate # 28952
- Added Qualification in Geriatric Psychiatry, 1991; recertified, 2000, 2010
- Examiner, Part II, 1991 - 2002; senior examiner, 1992 - 2002
- Part I Committee, 1993 - 1995

American College of Neuropsychopharmacology

- Mead Johnson Travel Award, 1982
- Program and Scientific Communications Committee, 1987-1989, 2003 - 2005
- Daniel H. Efron Award, 1987
- Honorific Awards Committee, 1991
- Ethics Committee, Member 1990 - 1992; Chairman 1991 - 1992
- Council Member, 1993 - 1995, 1997 - 1999
- President, 1996 - 1997
- Credentials Committee, 2000 - 2002
- Medicine Development Task Force, 2003
- Editor-in-Chief, Neuropsychopharmacology, 2001 - 2006
- History Committee, 2006 - 2009
- Liaison Committee, 2013 - Present; vice-chairman, 2016 - Present
- Membership Committee, 2016 - Present
- Julius Axelrod Mentorship Award, 2016

American College of Psychiatrists

- Laughlin Fellow, 1985
- Committee on Contributions, 1989 - 1992; Chair, 1991, 1992, 1995 - Present
- Chair, Committee on Education, 1993 - 1995, Member 2010
- Chair, Nominating Committee, 2000 - 2001
- Board of Regents, 1994 - 1996
- Award for Research in Mood Disorders, 1998
- Second Vice President, 1998
- Bowis Award, 1999

- First Vice President, 1999
- President-elect, 2000
- President, 2001-2002
- Stanley Dean Award for Research in Schizophrenia, 2004
- Chair, Program Committee, 2005, 2006, 2007, 2008, 2010
- Chair, Committee on the Award for Research in Mood Disorders, 2009 - 2018
- Committee on the Dean Award, 2018 - 2021

#### American Foundation for Suicide Prevention

- Scientific Council, 1992 - Present
- Board of Directors, 1999 - Present
- Research Award, 2001
- Vice President, 2006
- Chair, Scientific Council 2007 - 2008
- President, 2009
- President, Southeast Florida chapter, 2011 - 2013

#### American Psychiatric Association

- Kempf Fund Award for Research Development in Psychobiological Psychiatry, 1989
- Samuel G. Hibbs Award, 1991
- Chair, Young Faculty, Fellowship and Kempf Awards Committee, 1994 - 2002
- Council on Research, 1992 - 1997; 2006 - 2007; 2013 - 2017; 2017 - 2020; Chairman 1994 - 1995
- Award for Research in Psychiatry, 1996
- Corresponding Committee on Research on Psychiatric Treatments, Council on Research, Member, 1997 - 2003; Vice Chair, 1997- 2000; Chair, 1999 - 2003; Consultant, 2003 - 2011
- Committee for Award for Research, Council on Internal Organization, 1998 - 1999
- Chair, Task Force on Biomarkers and Novel Treatment, Council of Research, 2014 - Present
- Distinguished Psychiatrist Lecture - Annual Meeting, 1999, 2003
- American Psychiatric Institute for Research and Education, Board of Directors, 1999 - 2007
- Committee, APA Award for Research, 1999 - 2008; Chair 2000 - 2002
- Distinguished Fellow, 2003
- Distinguished Life Fellow, 2014
- Member, Young Faculty Awards Committee, 2003 - 2010
- Research Mentorship Award, 2006
- Corresponding Committee on Research Training, Member 2006 - 2009, Chair 2006 - 2009
- Vestermark Award, 2006
- Judson Marmor Award, 2008
- Council on Geriatric Psychiatry, 2012
- Chair, Research Colloquium for Junior Investigators, 2014 - Present
- Mental Health and Faith Community Partnership, Steering Committee, 2014

#### American Society for Neurochemistry

- Jordi Folch-Pi Award, 1987
- Committee for Travel for Young Investigators, 1987 - 1991

#### Anxiety and Depression Association of America (formerly Anxiety Disorders Association of America)

- Board of Directors, 2012 - 2015, 2015 - 2018, 2019 - 2022
- Scientific Advisory Board, 1999 - Present; co-Chair 2000 - 2002, Chair 2002 - 2003
- Program Chair, 2001
- Career Development Travel Award Committee, 2005

- Trainee Travel Award Committee, 2005
- Junior Faculty Research Grant Committee, 2005 - 2007
- Chair, Career Development Leadership Program, 2014 - 2017

Brain Canada Multi-Investigator Research Initiative

- Grant Review Committee, 2012, 2014

Collegium Internationale Neuropsychopharmacologicum

- Member, 1990
- Program Committee, XVIII Congress, 1992
- Nominating Committee, 1992 - 1996
- Chair, Membership Committee, 1996 - 1998

Canadian Foundation for Innovation

- Leading Edge/New Initiatives Fund Multidisciplinary Assessment Committee, 2009

Depression and Bipolar Support Alliance (DBSA), previously the National Depressive and Manic Depressive Disorders Association

- Scientific Advisory Board, Member, 1993 - Present; Executive Committee, 2002 - 2004; Vice Chairman, 1995 - 1998; Chairman, 1998 - 2001
- Gerald L. Klerman Lifetime Research Award, 1996
- Member, Board of Directors, 1998 - 2001

Department of Defense/American Institute of Biological Sciences,

- Chairman, Grant Review Committee on Suicide Prevention, 2009
- Member, Grant Review Committee on Post-Traumatic Stress Disorder, 2011

George West Mental Health Foundation

- Advisory Board 1993 - 1995
- Board of Directors 1995 - 2009
- Nominating Committee, 2008 - 2009
- Chair, National Advisory Board, 2006 - Present

Georgia Psychiatric Physicians Association

- Psychiatrist of the Year, 2006
- Awards Committee, 2000 - 2009

International Society for CNS Clinical Trials and Methodology

- Task Force on Suicide Assessment and Clinical Trail Design, 2015

International Society of Psychoneuroendocrinology

- Curt P. Richter Award, 1985
- Scientific Program Committee, 1991, 1995 - 1999
- President-Elect, 1990 - 1993
- President, 1993 - 1996
- Past-President, 1996 - 1999
- Executive Committee, 1990 - 1999; 2000 - 2002
- Awards Committee, 2004, 2015
- Nominating Committee, 2006 - 2008, 2013 - 2014
- Lifetime Achievement Award, 2015

- Curt P. Richter Award Committee, 2015
- Program Chair, 2016 Annual Meeting, 2016

Institute of Medicine of the National Academy of Sciences (National Academy of Medicine)

- Member, 2002
- Planning Committee, Neuroscience Special Interest Group, 2010 - 2012

International Academy of Behavioral Medicine Counseling and Psychotherapy

- Advisory Council, 2010

Max Planck Institute for Psychiatry, Munich, Federal Republic of Germany

- External Advisory Board, 1990 - 2001
- Nominating Committee, Kraepelin Medal, 1997
- Visiting Professor, 2013

The National Aeronautics and Space Administration (NASA) Biomedical Research Council, 2000 - 2002

National Alliance for the Mentally Ill (NAMI)

- Ad Hoc Scientific Advisory Group, 1990 - Present
- Exemplary Psychiatrist Award, 1997
- Scientific Council, 2002 - Present

NAMI Georgia

- Sponsorship Committee, 1998 - 2009
- Board of Directors, 1998 - 2009

National Alliance for Research on Schizophrenia and Depression (NARSAD), now Brain and Behavior Research Foundation (BBRF)

- Scientific Council, 1996 - Present
- Established Investigator Award, 1996, 2003
- Selo Prize for Research in Mood Disorders, 1997

National Institutes of Health

- Member, Neurobehavioral Research Subcommittee of the Neurosciences Research Review Committee, July 1983 - June 1987
- Member, Biological Psychopathology Study Section, 1990 - 1993
- Member, National Advisory Council, October 1, 1998 - September 30, 2002
- Member, Review Group, Interventions Committee for Adult Mood and Anxiety Disorders (ITAV), July 1, 2006 – June 30, 2010
- Member, Review Group, Loan Repayment Program, 2006
- Ad Hoc Member, Review Group, Neurotechnology, June 2010
- Member, Special Emphasis Panel, National Institute of Occupational Safety and Health, 2014
- Member, Special Emphasis Panel, ZRG1 BBBP-Y (02) Neuroscience of Stress, Sleep and Psychopathology, 2015
- Member, Special Emphasis Panel, ZDAI-JXR-D (13), National Institute of Drug Abuse, Smoking Cessation Interventions for People with Schizophrenia, 2015, 2016
- Pennsylvania State University NICHD Transnational Center for Child Maltreatment Studies (TCCMS) External Advisory Board, 2017 - Present

NeuroMAP CoBRE project at LIBR  
- External Advisory Board, 2017 - Present

North Carolina Psychiatric Association  
- Committee on Research, 1988 - 1991  
- Program Committee, 1990  
- V. Sagar Sethi, M.D. Mental Health Research Award, 2013

Pennsylvania Department of Health and the Oak Ridge Associated Universities  
- Pennsylvania Final Performance Review, 2013, 2015

Rivermend Health LLC  
- Scientific Advisory Board, 2014

SAVE (Suicide Awareness Voices of Education)  
- Board of Reference 2010 - Present

Society of Biological Psychiatry  
- A.E. Bennett Neuropsychiatric Research Foundation Award in Basic Science 1979  
- Program Committee, 1988, 1990, 1993, 1994, 1998, 2005 – 2007, 2015-2017  
- A. E. Bennett Award Committee, 1990 - 1992, 2003 - 2006  
- Gold Medal Award, 1996  
- Resource Development Committee, 1997 - 1999  
- Chair, Membership Committee, 1999 - 2001  
- International Committee, 2008 - Present  
- Contributions Committee, 2008 - 2010  
- Chair's Choice Travel Fellowship Award Committee, 2013 - 2015

University of North Carolina  
- First Prize (The Michiko Kuno Award) Research Presentations, 1978, 1979; Special Recognition, Student Research Day, 1980  
- Third Prize, Student Research Paper Competition, 1978  
- The Deborah Cushing Leary Award, First Prize, Student Research Paper Competition, 1979  
- The Merck Award for Academic Excellence, 1981  
- AOA Lecture, 1998  
- Distinguished Alumni Award, School of Medicine, 1999  
- George Ham Society Award, 2000  
- University Alumni Award, 2006

Patient-Centered Outcomes Research Institute (PCORI)  
- Grant Reviewer Panel, 2012

World Federation of the Societies of Biological Psychiatry  
- Research Prize, 1991

World Psychiatric Association  
- Co-chair, Operational Committee on Education, 2011 - 2014  
- Education Committee, 1993 - Present  
- Task Force on Affective Disorders, 2001  
- Task Force on Bipolar Affective Disorders, 2005 - 2009  
- Task Force on the Heart and Brain, 2006 - 2009

**Review of Departments of Psychiatry**

- University of Minnesota, School of Medicine, 1995
- Brown University, 2002
- Robert Wood Johnson College of Medicine and Dentistry, 2003
- University of North Carolina, School of Medicine, 2005
- University of Texas- Houston, 2007
- University of South Florida-Tampa (Neurology and Psychiatry Curriculum), 2011

**State of Georgia**

- Governor's Mental Health Service Delivery Commission, 2007 - 2008
- Chair, Subcommittee on State Hospitals

**Veterans Administration**

- Mental Health and Behavioral Sciences Review Committee, Spring 2017

Predoctoral Fellowship, the Schizophrenia Research Foundation, Society of the Scottish Rite, Lexington, Massachusetts, 1975 - 1976

Postdoctoral Fellowship, National Institute of Neurologic, Communicative Disorders and Stroke, 1977

Third Prize, Student Competition, Research Presentations, Society of Experimental Biology and Medicine, Southeastern Section, Duke University School of Medicine, Durham, North Carolina, October 1975

Visiting Professor, Department of Physiology, The Catholic University Medical School, Santiago, Chile, July - August 1978

Second Prize, Roche Laboratories Award in Neuroscience, 1979 National Student Research Forum, Galveston, Texas

Honorable Mention, Mead Johnson Excellence in Research Award, 1979 National Student Research Forum, Galveston, Texas

Co-Principal Investigator, North Carolina Alcoholism Research Authority Grant # 7908, \$23,500, 1980; Grant # 8010, \$27,400, 1981

Nominating Committee, American Pain Society, 1982 - 1983

Member, Scientific Council - Argentine Association of Psychoneuroendocrinology, 1982 - 2000

Nanoline H. Duke Scholarship, 1985 - 1987, \$90,000

American Geriatrics Society, New Investigator Award, 1985

American Men and Women of Science, 1986 - Present

Visiting Faculty Program, Mead-Johnson Company, Evansville, IN, 1987 - 1991

Anna Monika Foundation Award for Research in Depression - Second Prize, 1987

Member, Florida Society of Clinical Oncology, 2016 - Present

Men of Achievement, 1988 - Present

Personalities of the Americas, 1988 - Present

Judith Silver Memorial Young Scientist Award, The National Alliance for the Mentally Ill, 1988

VA Schizophrenia Center Research Review Committee, 1988 - 1989

Scientific Advisory Board, National Center for Post-Traumatic Stress Disorder, 1989 - Present

Consultant, Information Systems and Network Corporation, 1989

Beverly Professor of Psychiatry, University of Toronto, Clarke Institute of Psychiatry, 1990 - 1991

Consultant, Serono Laboratories, Norwell, Massachusetts, 1989 - 1990

Men and Women of Distinction, 1990 - Present

Roy R. Grinker, Sr. Visiting Professor, Department of Psychiatry, University of Illinois and Michael Reese Hospital, 1991

Distinguished Physicians of America, 1991 - Present

Psychoneuroimmunology Advisory Board, Starbright Foundation, Los Angeles, California, 1992 - Present

Program Committee, Society for Neuroscience, 1992 - 1995

Scientific Program Committee, 1<sup>st</sup> International Congress on Hormones, Brain and Neuropsychopharmacology, 1992 - 1993; 2<sup>nd</sup> International congress, 1999 - 2000

Research Advisory Board - National Medical Enterprises, Inc., 1993 - 1994

Program Committee, Winter Conference on *Brain Research*, 1993

Edward J. Sachar Award for Research in Biological Psychiatry, Columbia University College of Physicians and Surgeons, 1993

Edward A. Strecker Award, Institute of Pennsylvania Hospital, 1993

Veterans Affairs Subcommittee, American Association of Chairmen of Departments of Psychiatry, 1992 - 1995

Eleventh Annual Feldman Lecture, Biology, Diagnosis and Treatment of Depression, Edmonton, Alberta, Canada, October 22, 1993

Consultant, ALZA Corporation, San Francisco, California, 1994 - 1996

Second Annual David Lester Memorial Lecture in Drug and Alcohol Abuse, Rutgers University, New Brunswick, New Jersey, 1994

Southern Association for Research in Psychiatry (SARP)  
- Council, 1994 - 1995  
- President, 1996

Best Doctors in America, 1994 - Present

Best Doctors in America, Southeast Region, 1996 - 1997

Best Doctors in Atlanta, Atlanta Magazine, 1997 - 2008

Reunette W. Harris Professor of Psychiatry and Behavioral Sciences, Emory University School of Medicine, 1994 - 2009

Maudsley Bequest Lecture, Royal College of Psychiatrists, 1994

Scientific Advisory Council, Center for Psychobiology and Psychosomatics, University of Trier, Trier, Federal Republic of Germany, 1994 - 1998

External Scientific Advisory Board, NIH Center Grants

- University of California, San Diego, 1994 - 1999
- Yale University, Chair of Committee, 1997- 2000
- Stanford University, 2000 - 2008
- UCLA, Center for Neurovisceral Sciences & Women's Health, External Advisory Board, 2003 - 2007
- Laureate Institute, Tulsa, Oklahoma. The Center for Neuroscience-based Mental Health Assessment and Prediction (1P20GM121312), Chair of Committee 2018 - Present

Board of Directors, Research Foundation for Mental Hygiene, Albany, New York, 1994 - 2002

Advisory Board, Treatment and Research Advancements Association for Personality Disorder, 1996 - 1998

American Men and Women in Science, 1997 - Present

Northeastern University 1995 Outstanding Alumni Award in Health Sciences

America Health Magazine, Best Psychiatrists in America, 1996 - Present

Academic Advisory Board, Pfizer Visiting Professorship Program in Psychiatry, Pfizer, Inc., 1997 - 1999

Honorary Member, Colegio Argentino De Neuropsicofarmacología, 1997

Alpha Omega Alpha, Honor Medical Society, 1998 - Present

The 26<sup>th</sup> Annual Herbert S. Ripley Lecture, Department of Psychiatry and Behavioral Sciences, The University of Washington, Seattle, Washington, May 6, 1998

The Julius Axelrod Lecture in Neuroscience, The City College of New York, New York, New York, December 2, 1998

The 1999 Mysell Lecture, Harvard Medical School Department of Psychiatry, Boston, Massachusetts, April 14, 1999

The Fleur Strand Research Award Lecture in Neuropeptides, International Neuropeptide Society, Key West, Florida, June 29, 1999

American Association of Chairs of Departments of Psychiatry  
- Advocacy Committee, 2000 - 2004

Institute for the Study of Aging  
- Scientific Advisory Board, 2000 - 2002

William C. Menninger Award, American College of Physicians, 2000

Scientific Committee, XI World Congress of Psychiatry, 1999

International Scientific Committee of the Association Argentina of Psychopathology and Neuroscience (AAPN), 2010

The Carter Center of Emory University, Board of Trustees, 2000 - 2002

Medical Advisory Board, InforMed Psychiatry, 2000 - 2006

Distinguished Leadership Award, Huntington's Disease Society of America, 2001

Patricia R. Barchas Award, American Psychosomatic Society, 2001

Scientific Council, Hathaway Children's Clinical Research Institute, 2001 - 2004

Burlingame Prize, The Institute of Living, 2002

Best Doctors in Atlanta, Consumer Reports, 2002

Most Cited Authors in Psychiatry, "Citation Classico", 2002

Hamilton Ford Lecture, Titus Harris Society, Galveston Texas, April 26, 2002

Usdin Award Lecture, "Stress and its impact on Brain Development", West Coast College of Biological Psychiatry, Santa Monica, California, April 19, 2002

NIH Grand Rounds, "Contemporary Clinical Medicine - Great Teachers", 2003

APA Medical Science Section Committee Representative, American Association for the Advancement of Science (AAAS), 2003 - Present

Pine Woods Retreat, Advisory Board, 2003 - Present

Fellow, The Council for Scientific Medicine and Mental Health, 2003 - Present

Scientific Board of Directors, Heinz C. Prechter Fund for Manic Depression, 2003 - 2004

Neuroscience Education Institute Lifetime Achievement Award, 2004

Frank O. Shobe Lecture, Washington University School of Medicine, 2004

Advisory Board, Conference on Innovations in Trauma Research Methods (CITRM), 2004

Irene and Eric Simon *Brain Research* Foundation, Honorary Board of Directors, 2004

National Psychiatry Training Council Task Force, Research Literacy Committee, 2004 - 2006

National Foundation for Mental Health (NFMH), Board of Directors, 2005 - Present

Atlanta Foundation of Psychoanalysis, Board of Advisors, 2006 - 2009

America's Top Psychiatrists, 2007, 2008, 2010, 2011

5<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Chair of the Year, 2012

8<sup>th</sup> Annual Jack Hanni Memorial Lecture, Adventist Midwest Health, "The Neurobiology of Child Abuse: Treatment Implications", Oakbrook, IL, 2007

American Association of Chairs of Psychiatry/Janssen Visiting Professorship, Department of Psychiatry, Dartmouth School of Medicine, Hanover, NH. June 10 - 12, 2007

College of Mathematics, Natural Sciences and Technology (CMNST) Guest Speaker – Dean's Distinguished Lecturer Series, Delaware State University, Dover, Delaware, February 28, 2012

Mental Health Service Delivery Commission Member, Appointed by Speaker of the House of Representatives for the State of Georgia, 2007 - 2009

Pfizer Visiting Professor, Department of Psychiatry, Ohio State University School of Medicine, Columbus, Ohio, October 25-28, 2010

International Union of Biochemistry and Molecular Biology, Gold Medal Award, 2014

Top 400 Most Cited Biomedical Researchers, 1996 -2011 (Eur J. Clin Invest. 43:1339-1396, 2013)

Who's Who in America, 1996 - Present

Who's Who in North America, 1996

Who's Who in Medicine and Healthcare, 1995 - Present

Who's Who in the South and Southwest, 1979 - Present

Who's Who in Frontier Science and Technology, 1982 - Present

Who's Who in the Behavioral Sciences, 1982, 1983

Who's Who of Emerging Leaders in America, 1986 - Present

Who's Who among Human Services Professionals, 1990 - Present

Who's Who in American Education, 1991 - Present

Who's Who in Science and Engineering, 1992 - Present

Who's Who in the World, 1993 - Present

The International Who's Who in Medicine, 1994 - Present

Who's Who in Sciences Higher Education (WWSHE), 2004 - Present

Who's Who in American Education, 2007 - Present

Who's Who Among Executives and Professionals, 2008 - 2010 "Honors Edition"

**Pharmaceutical and Clinical Research Company Scientific Advisory Boards**

Abbott Laboratories

Consultant, Abbott Laboratories, Diagnostics Division, Abbott Park, IL, 1986 - 1992

Research and Education Advisory Board for Psychiatry

- Member, 1990 - 2006
- Executive Board, 1991 - 1993, 2003 - 2006
- Antidepressant Advisory Board, 1991 - 1992

ACADIA Pharmaceuticals Clinical Advisory Board

- Member, 2000 - 2006

Allergan

- Consultant, 2012

AstraZeneca Pharmaceuticals

- Psychiatry Advisory Board, 1997 - 2001
- Chairman, 1999 - 2002
- Neuroscience Scientific Advisory Board, 1999 - 2009

Bristol-Myers-Squibb

- Antipsychotic Advisory Board, 2003 - 2006
- Antidepressant Advisory Board, 2003 - 2006
- EMSAM Advisory Board - Chairman, 2005 - 2006

CeNeRx

- Chairman, Scientific Advisory Board, 2007 - 2012

Clintara/Bracket

- Chairman, Scientific Advisory Board, 2014 - Present

Cephalon Pharmaceuticals

- Scientific Advisory Board, 2002

Comprehensive Neuroscience, Inc.

- Scientific Advisory Board, 1999 - 2004

Corcept

- Scientific Advisory Board, 2001 - 2006

Cyberonics

- Scientific Advisory Board, 2002 - 2006
- Chair, Mechanism of Action Board, 2003 - 2006

Cypress Biosciences, Inc.

- Board of Directors, 2001 - 2004
- Consultant, 2004 - 2006

**Eli Lilly and Company**

- Psychiatry Advisory Board, 1990 - 2000
- Bipolar Advisory Board, 1998 - 1999
- Consultant, 2002 - 2003
- Global Neuroscience Advisory Board, 2005 - 2006

**Forest Laboratories**

- Citalopram Clinical Advisory Board, 1997 - 2002
- Psychiatry Scientific Advisory Board, Chairman, 1999 - 2008

**Fortress Biotech**

- Consultant, 2015

**GlaxoSmithKline Advisory Board of Psychiatrists**

- Chairman, 1991 - 2004

**Janssen Pharmaceuticals**

- Mood Disorders Advisory Board, Member and Chairman, 1998 - 2004
- Topiramate Advisory Board, Member and Chairman, 1999 - 2001
- Antipsychotic Advisory Board, Member, 1999 - 2005
- Johnson & Johnson Scientific Advisory Board, 2007- 2008

**Lundbeck**

- Consultant, 2006

**Magstim**

- Consultant, 2016

**Merck Sharp & Dohme Research Laboratories**

- Consultant, Neuroscience Research Center, 1994
- Mood Disorders Advisory Board, 1999 - 2003

**Merck-MedCo Mental Health Advisory Board**

- Member, 1996 - 1998

**Mitsubishi Pharma**

- Consultant, 2013 - Present

**Mt. Cook Pharma**

- Board of Directors, 2007 - 2010

**Neurocrine Biosciences**

- Scientific Advisory Board, 1994 - 2004

**Neuronetics**

- Scientific Advisory Board, 2006

**Novadel Pharma**

- Board of Directors, 2003 - 2011
- Chair, Scientific Advisory Committee
- Member, Compensation Committee
- Member, Nominating Committee
- Member, Audit Committee

**Novartis Pharmaceutical Company**

- Bipolar Advisory Board Chairman, 2001 - 2003
- Pediatric Bipolar Advisory Board, 2002 - 2003
- Antidepressant Advisory Board, 2006

**Organon Pharmaceuticals Psychiatry Advisory Board**

- Member, 1997 - 2004

**Otsuka Psychiatry Advisory Board**

- Chairman, 2003 - 2006

**PharmaNeuroboost**

- Chair, Scientific Advisory Board, 2006 - 2012

**Pfizer Pharmaceuticals**

- Clinical Neuroscience Advisory Board, 2004 - 2006
- Chair, Antipsychotic Advisory Board, 2004 - 2006

**Prismic Pharmaceuticals**

- Consultant, 2014 - Present

**Quintiles Scientific Advisory Board, 2004 - 2008**

**Roche Laboratories, a Division of Hoffman-LaRoche, Inc.**

- Mania Advisory Board, 1993
- Pharmacogenomics Advisory Board, 2006

**Sanofi/Synthelabo**

- Psychiatry Advisory Board, 2002 - 2005

**SciRex**

- Scientific Advisory Board, 1999 - 2003

**Shire Pharmaceuticals**

- Consultant, 2011

**SK Pharma**

- Consultant, 2011 - 2012

**Solvay Pharmaceuticals Psychiatry Advisory Board**

- Member, 1991 - 1999
- Chairman, 1991 - 1999
- Antipsychotic Advisory Board, 2005 - 2006

Somerset Pharmaceuticals Psychiatry Advisory Board

- Chair, 2000 - 2004

Taisho Pharmaceutical Inc.

- Consultant, 2013 - Present

Takeda Pharmaceuticals

- Consultant, 2011 - 2015

Vela Pharmaceuticals

- Scientific Advisory Board, 2001 - 2002

Wyeth-Ayerst Psychiatric Advisory Board

- Chairman and Member, 1995 - 2002

Xhale

- Consultant, 2010 - Present

- Chair, Scientific Advisory Board, 2012 - Present

### **RECENT GRANT SUPPORT**

#### **I. Federal Funding**

Co-Principal Investigator, National Institute on Alcohol Abuse and Alcoholism/National Institutes of Health Grant 1RO1AA024933 Stem Cell Therapy, Inflammation and Treatment Response in Alcoholism-Depression Co-morbidity, 9/1/2017 – 6/30/2022, \$3,824,185.

Co-Investigator, National Institute on Drug Abuse/National Institutes of Health Grant 1RO1DA034589 (Predictive Biomarkers of CVD Risk in Diverse HIV-1+ Cocaine Abusers), Mahendra Kumar, Ph.D., Principal Investigator, 9/15/2014 – 8/31/2019, \$2,900,000.

Principal Investigator, National Institute of Mental Health Grant 1R01MH094759 (Prospective Determination of Risk Factors for PTSD), 5/17/2012 - 4/30/2017, \$1,808,691.

Co-Investigator, National Institutes of Health Grant 7R01MH078775-04 (Validation of Measures of Real-World Outcome), Philip Harvey, Ph.D., Principal Investigator, 7/28/10 – 6/30/12, \$688,500.

Co-Investigator, National Institutes of Health Grant 1R01DA031201 (HIV-1 Infection in Methamphetamine Abusers: Endocrine Outcomes), Mahendra Kumar, Ph.D., Principal Investigator, 4/1/11 – 1/31/16, \$3,087,798.

Principal Investigator, National Institute of Mental Health Grant P50 MH-077083 (Predictors of Antidepressant Treatment Response: The Emory CIDAR), 4/11/2006 – 11/30/2008 as PI, funded through 3/31/2011, \$10,327,500.

Principal Investigator, National Institute of Mental Health Grant U19 MH069056 (The Emory GSK-NIMH Collaborative Antidepressant Drug Discovery Initiative), 7/1/03 - 6/30/08, \$4,900,000, 9/1/08 – 11/30/2008 as PI, funded through 8/31/13, \$11,133,680.

Principal Investigator, National Institute of Mental Health Grant MH- 58922 (Sylvio O. Conte Center for the Neuroscience of Mental Disorders), 9/1/99 - 8/31/04, \$13,079,284; 9/1/04 - 8/31/09, \$11,787,322.

Principal Investigator, National Institute of Mental Health Grant MH-39415 (Neurotensin, an Endogenous Neuroleptic-like Peptide), 12/1/83 - 11/30/86, \$386,000; 12/1/86 - 11/30/90, \$694,495; MERIT award to extend funding until 11/30/94, \$850,000; 8/1/95 - 6/30/2000, \$803,577; 8/1/00 - 7/31/05, \$1,125,000, 6/30/06 – 11/30/2008 as PI, funded through 7/31/2011, \$2,257,545.

Principal Investigator, National Institute of Mental Health Grant MH-40524 (Neuropeptide and Cholinergic Function in Alzheimer's Disease); 7/1/85 - 6/30/87, \$317,951; 7/1/87 - 6/30/90, \$480,000; 4/1/91 - 3/31/94, \$958,795; 2/1/96 - 1/31/99, \$636,719.

Principal Investigator, National Institute of Mental Health Grant MH-42088 (The Psychobiology of Corticotrophin-releasing Factor); 1/1/87 - 12/31/88, \$189,882; 7/1/89 - 6/30/92, \$476,015; 1/1/93 - 12/31/97, \$800,000; 1/1/98 - 12/31/2000, \$399,093; 2/1/01 - 1/31/05, \$1,000,000, 7/1/06 - 3/31/2011, \$2,754,000.

Principal Investigator, National Institute of Drug Abuse Grant DA-09492 (The Neurochemical Pathology of Human Cocaine Abuse); 7/1/95 - 5/31/98, \$556,477.

Principal Investigator, National Institute of Mental Health Grant, MH-46791. Pancreatic Cancer, Depression and Immune Function), 9/30/91 - 8/30/96, \$634,550.

Principal Investigator, The Emory Research Infrastructure Support Program, National Institute of Mental Health Grant MH-51761, 8/1/94 - 7/31/99, \$1,676,680 (includes supplement of \$300,000 and indirect costs).

Principal Investigator, National Institute of Mental Health Grant MH-90001 (Comparative Effectiveness of Antipsychotic Medications - CATIE Project), 12/1/00 - 11/29/02, \$342,611; 11/30/02 - 9/30/07, \$383,750.

## **II. Foundations**

Principal Investigator, Stanley Foundation Fund for Medical Student Research in Psychiatry, Duke University Medical Center, 1989 - 1992, \$45,000; Emory University School of Medicine, 1992 - 2004, \$180,000.

Principal Investigator, American Suicide Foundation Institutional Grant, 1996 - 1997, \$50,000; 1998 - 1999, \$60,000.

Principal Investigator, American Foundation for Suicide Prevention (The College Screening Project: A Program to Identify and Help Students with Significant Psychological Problems), 4/16/2002 - 12/31/04, Total direct costs \$200,000.

Principal Investigator, MacArthur Foundation Depression Network. Project on Neuroendocrine Effects of Early Separation, 1990 - 1991, \$45,000; 1992 - 1993, \$34,500.

Established Investigator Award, National Alliance for Research in Schizophrenia and Depression (NARSAD), "Mechanisms of Increased Risk of Depressed Patients to Cardiovascular Disease", 1996, \$100,000.

Established Investigator Award, National Alliance for Research in Schizophrenia and Depression (NARSAD), "Comparison of Serotonin Transporter Binding by Functional Brain Imaging versus Transfected Cell Assay", 5/1/03 - 5/30/06, direct costs \$100,000.

Distinguished Investigator Award, American Foundation for Suicide prevention (AFSP), "Investigation for Serotonin Transporter Binding Alterations in Violent and Non-Violent Suicide Attempters Using SPECT with [<sup>123</sup>I] ZIENT", 7/1/02 - 6/30/06, direct costs \$100,000.

Co-Principal Investigator, Stanley Medical Research Institute, Mesenchymal Stem Cell Therapy for Treatment-Resistant Bipolar Depression, 2016-2018, \$650,000.

### **III. Pharmaceutical Grants**

Principal Investigator, DuPont Pharmaceuticals, The effect of DUP-996 in Alzheimer's Disease, 1990 - 1992, \$240,000; 1992 - 1993, \$121,305.

Principal Investigator, Immunology Research Institute, Johnson & Johnson, Basic and Clinical Studies of Thymopoietin, 1991 - 1994, \$51,000.

Principal Investigator, Eli Lilly Company, Amesergide versus placebo versus fluoxetine in Major Depression, 1992 - 1993, \$251,650.

Principal Investigator, Solvay Pharmaceuticals, A Comparison of fluvoxamine and fluoxetine in Major Depression, 1992 - 1993, \$87,360.

Principal Investigator, SmithKline Beecham, A double-blind randomized trial of paroxetine versus placebo in patients with depression accompanied by anxiety, 1992 - 1993, \$75,600.

Principal Investigator, SmithKline Beecham, Paroxetine versus clomipramine and placebo in the treatment of obsessive-compulsive disorder, 1992 - 1993, \$253,700; extension of the comparative study, \$100,680.

Principal Investigator, SmithKline Beecham, A double blind place-controlled multicenter study of fixed doses of paroxetine in the treatment of panic disorder, 1993 - 1994, \$76,440; continuation study, \$60,840.

Principal Investigator, Eli Lilly Company, Olanzapine (LY170053) vs. placebo and haloperidol in the treatment of schizophrenia, 1991 - 1994, \$318,500.

Principal Investigator, Pfizer Pharmaceuticals, "Study evaluating three doses of oral CP 88059-1 in the acute exacerbations of schizophrenia and schizoaffective disorder". 1992 - 1993, \$316,632.

Principal Investigator, SmithKline Beecham, Studies of fixed doses of paroxetine in treatment of panic disorder, 1992 - 1994, \$76,440, extension \$60,840.

Principal Investigator, Boots Pharmaceuticals, "Zotepine in acute schizophrenia", 1993 - 1995, \$104,160.

Principal Investigator, Pharmaco-LSR, "Olanzapine vs. haloperidol in the treatment of schizophrenia and other psychotic disorders", 1993 - 1994, \$346,080.

Principal Investigator, ICON-Abbott laboratories, "A double-blind placebo controlled, haloperidol-referenced study for the safety and efficacy of sertindole in schizophrenic patients", 1993 - 1994, \$120,000.

Principal Investigator, Solvay Pharmaceuticals, A double-blind comparison of fluvoxamine and sertraline in major depression, 1994 - 1995, \$88,440.

Principal Investigator, SmithKline Beecham, Paroxetine in the treatment of bipolar depression, 1994 - 1995, \$96,192.

Principal Investigator, SmithKline Beecham, A paroxetine, desipramine and placebo comparison of depressed breast cancer patients, 1994 - 1997, \$130,000.

Principal Investigator, Hoechst-Roussel Pharmaceuticals, A study of the efficacy of HP873 administered to schizophrenic patients, 1994 - 1995, \$150,000.

Principal Investigator, Forest Laboratories, Inc., "Clinical evaluation of extended release oral physostigmine in the treatment of patients with dementia of the Alzheimer's type, 1994 - 1995, \$240,000.

Principal Investigator, The Upjohn Company, A pilot trial of pramipexole in the treatment of Tardive Dyskinesia, 1994 - 1995, \$50,000.

Principal Investigator, Pfizer Pharmaceuticals, A fifty-two week, open label, randomized study evaluating the safety and efficacy of ziprasidone (CP-88,059-1) (40-80 MG BID) and risperidone (3-5 MG BID) in the maintenance treatment of outpatients with schizophrenia or schizoaffective disorder, 1994 - 1995, \$175,000.

Principal Investigator, Zeneca Pharmaceuticals, "A multicenter, open-label trial evaluating the safety and tolerability of Seroquel in treatment of elderly subjects with selected idiopathic and organic psychoses", 1995 - 1997, \$67,000.

Principal Investigator, Janssen Pharmaceuticals, "Comparison of Risperidone and Haloperidol for Prevention of Relapse in Schizophrenia and Schizoaffective Disorders", 6/1/96 - 5/31/97, \$126,000.

Principal Investigator, Wyeth-Ayerst Pharmaceuticals, "Double-Blind, Placebo-Controlled Study of Venlafaxine-ER and Venlafaxine-OROS", 7/1/96 - 3/31/97, \$150,540.

Principal Investigator, Eli Lilly & Company, "Study of Olanzapine in Schizophrenic Patients Discontinuing Clozaril", 6/1/96 - 5/31/97, \$93,820.

Principal Investigator, Wyeth-Ayerst Pharmaceuticals, "Double-Blind, Placebo-Controlled Study of Venlafaxine-ER and Fluoxetine in Inpatients with Major Depression and Melancholia", 6/1/96 - 12/31/97, \$270,160.

Principal Investigator, Wyeth-Ayerst Pharmaceuticals, "Double-Blind, Placebo-Controlled Study of Venlafaxine-ER and Fluoxetine in Outpatients with Major Depression", 7/1/96 - 12/31/97, \$158,040.

Principal Investigator, Eli Lilly & company, "Olanzapine versus placebo in the treatment of mania associated with bipolar I disorder", 1996 - 1998, \$310,720.

Principal Investigator, SmithKline Beecham, A 38-week, two phase, multicenter study to investigate the safety and effectiveness of paroxetine (10-60 mg/day) in the treatment of children and adolescent outpatients with obsessive-compulsive disorder, 1996 - 1999, \$48,703.

Principal Investigator, Boots Pharmaceuticals, "Study of zotepine 75, 150 and 300 mg daily doses in schizophrenia", 1993 - 1997 \$45,297.

Principal Investigator, Bristol-Myers Squibb Company, "An *in vitro* study of the receptor binding profile of nefazodone and its metabolites on various neurotransmitter receptors", 1995 - 1997, \$116,064.

Principal Investigator, Zeneca Pharmaceuticals, "A multicenter, open, randomized comparison of ICI204,636 (Seroquel) and usual care on health outcomes in subjects with schizophrenia and schizoaffective disorders", 1995 - 1998, \$116,064.

Principal Investigator, Eli Lilly Company, "The effects of olanzapine on neurotensin in the rat brain", 1994 - 1998, \$137,000.

Principal Investigator, Eli Lilly Company, "The acute and long-term efficacy of olanzapine in first-episode psychotic disorders" a randomized double-blind comparison with haloperidol", 1997 - 2001, \$2,395,366.

Principal Investigator, Abbott Laboratories, "The efficacy and safety of rapid loading Depakote in the treatment of acutely manic patients with bipolar disorder", 1997 - 1998, \$62,100.

Principal Investigator, Pfizer Inc., "A 52 week, open extension study evaluating the safety and outcome of 40-80 mg BID oral CP-88,059-1 daily in the treatment of subjects who have participated in previous CP-88,059-1 clinical trials, 1995 - 1997, \$42,432.

Principal Investigator, SmithKline Beecham, "A 38 week, two phase, multicenter study to investigate the safety and effectiveness of paroxetine in the treatment of children and adolescent outpatients", 1996 - 1997, \$147,584.

Principal Investigator, Bristol Myers Squibb, "A prospective, multicenter study comparing the safety and efficacy of nefazodone HCl to cognitive behavioral therapy-chronic depression (CBT-CD) and combined nefazodone and CBT-CD for the acute, continuation and maintenance treatment of chronic forms of depression", 1996 - 1999, \$1,533,269.

Principal Investigator, SmithKline Beecham, "Double-blind, placebo controlled study of the clinical effects of immediate release paroxetine in the treatment of major depression in elderly patients", 1996 - 1997, \$65,760.

Principal Investigator, Wyeth-Ayerst Laboratories, "Double-blind placebo controlled study of venlafaxine and fluoxetine in inpatients with major depression and melancholia", 1996 - 1997, \$116,160.

Principal Investigator, Wyeth-Ayerst Laboratories, "Double-blind placebo controlled study of venlafaxine and fluoxetine in outpatients with major depression", 1996 - 1997, \$105,360.

Principal Investigator, Eli Lilly Company, "Olanzapine alone and in combination with fluoxetine versus placebo in major depressive disorders with psychotic features", 1998 - 1999, \$41,430.

Principal Investigator, Eli Lilly Company, "The neural correlates of the effects of olanzapine on schizophrenia: a longitudinal positron emission tomography (PET) analysis", 1998 - 1999, \$230,000.

Principal Investigator, Bristol-Myers Squibb Company, "Nefazodone in the treatment of social phobia: functional brain imaging and neuroendocrine correlates", 1998 - 1999, \$100,000.

Principal Investigator, Eli Lilly Company, "Does fluoxetine reverse the effects of early life stress on CNS CRF systems and improve psychological and neuroendocrine function?", 1998 - 2005, \$271,875.

Principal Investigator, Eli Lilly & Company, "Olanzapine in the reduction of hyperprolactinemia and associated morbidity in schizophrenic patients", 1999 - 2000, \$30,000

Principal Investigator, Eli Lilly & Company, "Prevalence of hyperprolactinemia in schizophrenia patients treated with antipsychotic drugs", 1999 - 2000, \$32,496.

Principal Investigator, SmithKline Beecham Pharmaceuticals, "A 12 week, double-blind, placebo controlled, parallel group study to assess the efficacy and tolerability of paroxetine in patients suffering from posttraumatic stress disorder (PTSD)", 1999 - 2000, \$36,000.

Principal Investigator, Wyeth Ayerst Pharmaceuticals, "The development of a positron emission tomography (PET) radioligand for *in vivo* imaging of the brain norepinephrine transporter (NET)", 2002 - 2005, annual direct costs \$164,474.

Principal Investigator, Bristol-Myers-Squibb Pharmaceuticals, "The role of the neuropeptid Y system in the effects of aripiprazole in sensorimotor gating", 2001 - 2004, annual direct costs \$80,492.

#### **EDITORIAL BOARDS**

Associate Editor, Psychopharmacology Bulletin, 1988 - 1999; Editor-in-Chief, 2001

Editorial Board, Contemporary Psychiatry, 1985 - 1991

Editorial Board, Regulatory Peptides, 1986 - 2016

Editorial Board, Hormones and Behavior, 1986 - 1993

Editorial Board, Journal of Gerontology, 1987 - 1999

Editorial Board, Progress in Neuroendocrinimmunology, 1988 - 1992

Editorial Board, Molecular and Chemical Neuropathology, 1988 - 1999

Editorial Board, Synapse, 1989 - 2004

Editorial Board, Life Sciences, 1989 - 2012

Editorial Board, Progress in Neuro-Psychopharmacology and Biological Psychiatry, 1989 - 2009

Editorial Board, Advances in Neuropsychiatry and Psychopharmacology, 1989 - 1995

Editorial Board, Journal of Neuropsychiatry and Clinical Neurosciences, 1990 - Present

Editorial Board, European Archives of Psychiatry and Clinical Neurosciences, 1990 - Present

Section Editor, Neurosciences and Neuropsychiatry, Current Opinion in Psychiatry, Current Science, 1990 - 1992

Editorial Board, Neuropsychopharmacology, 1991 - 1993; Editor-in-Chief, 2001 - 2006

Co-Editor-in-Chief, Critical Reviews in Neurobiology, 1991 - 2001

Editorial Board, The Emory University Journal of Medicine, 1991 - 1993

Editor-in-Chief, Depression, 1992 - 1996

Editorial Board, Anxiety, 1993 - 1996

Co-Editor-in-Chief, Depression and Anxiety, 1996 - 2001

Editorial Board, Harvard Review of Psychiatry, 1993 - 2008

Editorial Board, Psychoneuroendocrinology, 1992 - Present

Editorial Board, Journal of Psychiatric Research, 1993 - Present

Editorial Board, Video Journal of Psychiatry, 1993 - 1996

Editorial Board, American Journal of Psychiatry, 1995 - 1999

Associate Editor, Journal Watch for Psychiatry, 1995 - 2004

Editorial Board, Molecular Psychiatry, 1995 - 2013

Editorial Board, American Psychiatric Press Inc., 1995 - 2002

Editorial Board, Neuropsychobiology, 1995 - Present

Editorial Board, Directions in Psychopharmacology, 1996 - Present

Editorial Board, Neurobiology of Disease, 1996 - 2004

Editorial Board, The Cortlandt Forum, 1996 - 2002

Editorial Board, CNS Spectrums, 1996 - 2009

Editorial Board, Human Psychopharmacology, 1997 - 2000

Advisory/Editorial Board, Focus On: Psychopharmacology, Institute for Scientific Information, 1996 - 1997

Associate Editor, Biological Psychiatry, 1997 - 2001

Section Editor: Clinical Studies and Clinical Trials, Neuropeptides, 1997 - Present

Advisory Board, Mental Fitness, 1997 - Present

Editorial Board, Essential Psychopharmacology, 1997 - Present

Editorial Board, International Journal of Psychiatry in Clinical Practice, 1998 - Present

Editorial Board, Current Psychiatry Reports, 1998 - 2006

Editorial Board, European Neuropsychopharmacology, 1999 - 2009

Editorial Board, Trends in Evidence-based Neuropsychiatry (formerly The Economics of Neuroscience), 1999 - Present

Associate Editor, Journal of Alzheimer's Disease, 1999 - 2000

Editorial Board, Neuropsychiatry Reviews, 2000 - Present; Editor-in-Chief, 2008 - Present

Editorial Board, Bipolar Disorders and Impulsive Spectrum Letter, 2000 - 2005

Editorial Board, Schizophrenia Research, 2001 - 2015

Editorial Board, L'Encephale. 2001 - Present

Editorial Board, Psychosomatic Medicine, 2002 - 2003

Editorial Advisory Board, The Journal of Applied Research, 2002 - Present

Editorial Advisory Board, Psychiatric UPDATE, 2002 - Present

Editorial Board, Mind & Matter, 2002 - 2009

Editorial Board, Experimental Neurology, 2003 - 2018

Advisory/Editorial Board, The Scientific Review of Mental-Health Practice, 2001 - Present

Editorial Board, Current Psychosis and Therapeutics Reports, 2003 - 2006

Editorial Board, Journal of Traumatic Stress, 2004 - 2008

Editorial Board, Neuropsychiatric Disease and Treatment, 2004 - Present

Editorial Advisory Board, Psychiatry, 2004, 2005

Editorial Board, Current Psychiatry Reviews, 2005 - Present

Editorial Board, Central European Journal of Medicine, 2006 - Present

Editorial Board, Psychiatry, 2006

Editorial Board, Central European Journal of Medicine – Versita, 2007 - Present

Editorial Board, Mount Sinai Journal of Medicine: A Journal of Translational and Personalized Medicine, 2007

Editorial Board, Revista, Argentina de Psiquiatría Biológica

Editorial Board, Depression and Anxiety, 2008 - Present

Editorial Board, World Journal of Biological Psychiatry, 2009 - Present

Editorial Board, Depression Research and Treatment, 2009 - Present

Editorial Board, Mind and Brain, 2009 - Present

Editorial Board, World Journal of Diabetes, 2009 - Present

Editorial Advisory Board, Innovations in Clinical Neuroscience, 2011 - Present

Editorial Board, The Scientific World Journal, 2011 - Present

Editorial Board, BMC Medicine, 2012 - 2018

Editorial Board, Archives of Neuropsychiatry, 2012 - Present

Editorial Board, Journal of Traumatic Stress Disorders and Treatment, 2012 - Present

Editorial Board, Curēus e-Journal of Medicine, 2012 - Present

Editorial Board, Journal of Psychiatry and Neurobiological Sciences (Düşünen Adam), 2013 - Present

Editorial Board, Journal of Addiction Medicine and Therapy, 2013 - Present

Editorial Board, Journal of the International Union of Biochemistry and Molecular Biology, 2013 - Present

Editorial Board, MedZine, 2014 - Present

Editorial Board, Düşünen Adam, The Journal of Psychiatry and Neurological Sciences, 2015 - Present

Co-editor in Chief, Personalized Medicine in Psychiatry, 2016 - Present

Editorial Board, Revista Brasileira de Psiquiatria, 2017 - Present

Section Editor, Current Treatment Options in Psychiatry, 2017 - Present

### **SUPERVISION OF PHD STUDENTS**

- |                           |   |
|---------------------------|---|
| 1. Michael J. Owens, PhD  | Pharmacology, Duke University, 1990                             |
| 2. Beth Levant, PhD       | Pharmacology, Duke University, 1990                             |
| 3. James C. Ritchie, PhD  | Pharmacology, Duke University, 1995                             |
| 4. Becky Myers Kinkead    | Pharmacology, Emory University, 1997                            |
| 5. Steven Stout           | Neuroscience, MD, PhD, Emory University, PhD, 1999              |
| 6. Kelly Hartline-Skelton | Neuroscience, MD, PhD Emory University, PhD, 2000               |
| 7. Elizabeth Binder, MD   | Neuroscience, PhD, Emory University, 1999                       |
| 8. David Gutman           | Neuroscience, MD, PhD, Emory University, PhD, 2004              |
| 9. Ricardo Caceda, MD     | Neuroscience, PhD, Emory University, 2005                       |
| 10. Scott Feng            | Biochemistry, MS Degree, Emory University, 2004                 |
| 11. Nicola Hanson         | Neuroscience, PhD, Emory University, 2010                       |
| 12. Lizabeth Martin       | Neuroscience, PhD, Emory University, 2009                       |
| 13. Chase Bourke          | Molecular and Systems Pharmacology, PhD, Emory University, 2012 |
| 14. Lucy Guillory         | Neuroscience, PhD, Emory University, 2013                       |

### **SUPERVISION OF POST-DOCTORAL FELLOWS**

- |                                |             |
|--------------------------------|-------------|
| 1. Scott T. Cain, PhD          | 1983 - 1985 |
| 2. Kathleen M. Skoog, PhD      | 1984        |
| 3. Peter J. Elliott, PhD       | 1985 - 1986 |
| 4. Gregory N. Ervin, PhD       | 1987 - 1988 |
| 5. Larry L. Cook, PhD          | 1988 - 1989 |
| 6. Pamela D. Butler, PhD       | 1989 - 1990 |
| 7. Catherine M. Pihoker, MD    | 1990 - 1991 |
| 8. Maria A. Vargas, MD         | 1990 - 1991 |
| 9. Diane Hayden-Hixson, PhD    | 1991 - 1992 |
| 10. Zachary N. Stowe, MD       | 1992 - 1993 |
| 11. Dominique L. Musselman, MD | 1993 - 1996 |
| 12. James Radke, PhD           | 1994 - 1997 |
| 13. Christine Heim, PhD        | 1996 - 1999 |
| 14. Lotta Arborelius, PhD      | 1997 - 1999 |
| 15. Osvaldo Gayton, MD, PhD    | 1999 - 2000 |
| 16. Kristin Penza, PhD         | 2002 - 2004 |
| 17. Derick Vergne, MD          | 2005 - 2006 |
| 18. Gretchen Neigh, PhD        | 2005 - 2007 |

### **DUKE UNIVERSITY COMMITTEES**

1. Research Renaissance III Committee, 1983; Chairman Neurobiology Subcommittee
2. Behavioral Medicine Research Center, Internal Advisory Committee, Duke University Medical Center, 1986 - 1991
3. Search Committee, Chair of Pharmacology, 1988 - 1990
4. Clinical Psychobiology Laboratory Steering Committee, 1987 - 1991
5. Medical Student Research Fellowship Committee, 1989 - 1991
6. Search Committee, Chief of Psychiatric Oncology, 1989 - 1990
7. Internal Advisory Board, Duke University NINCDS Stroke Center, 1990 - 1991

## **EMORY UNIVERSITY COMMITTEES**

1. Emory Medical Care Foundation Board of Directors, 1991 - 2009
2. Search Committee, Director Positron Emission Tomography Center, 1991 - 1992
3. Subcommittee on Research, LCME Institutional Self-Study, 1992
4. The Emory Clinic, Task Force for Network Development, 1992
5. Search Committee, Associate Dean for Research, 1992 - 1993
6. Management Committee (Executive Committee), The Emory Clinic, 1993 - 1994
7. VA Medical Center Shared Equipment Committee, 1993
8. Faculty Relations Committee, 1993-1995; 1997; Ad hoc member, 1998
9. Advisory Committee, Positron Emission Tomography Center, Advanced Imaging Center 1992 - 2006
10. Chair, Impaired Professionals Committee, The Emory Clinic, 1993 - 1997
11. Search Committee, Director, Yerkes Primate Center, 1993 - 1994
12. Research Advisory Council, Emory University School of Medicine, 1994 - 1997
13. Search Committee, Superintendent, Georgia Mental Health Institute, 1994
14. Search Committee, Chair of Pediatrics, 1994 - 1997
15. Board of Directors, The Emory Clinic, 1994 - 1998
16. Search Committee, Endowed Chair in Alzheimer's Disease Research, 1995
17. Chair, Search Committee, Chair of Pathology, 1995 - 1996
18. Ad Hoc Committee for Reengineering the Clinical Research Process at Emory, 1995 - 1997
19. Chair, Winship Cancer Center Review Committee, 1996
20. School of Medicine Research Steering Committee, 1997
21. Chair, Search Committee, Chair of Dermatology, 1997
22. Emory HealthCare Task Force on Hospital Configuration/Operations, 1997
23. Research Advisory Committee, 1997 - 1999
24. LCME Group 2 Self Study Project, 1998 - 1999
25. Search Committee, GRA Endowed Chair in Functional Imaging, 1999
26. Office of Technology Transfer/Office of Sponsored Programs Review Committee, 1999
27. Task Force on the Center for Aging, 1999 - 2009
28. Ad Hoc Committee to Evaluate EMCF Research Grant Policy, 2001
29. Clinical Research Curriculum Award (CRCA) Advisory Committee, 2000 - 2009
30. Search Committee, Chair of Pathology, 2002
31. Chair, Search Committee, Chair of Biochemistry, 2002
32. Emory Healthcare Organizational Reassessment Committee, 2002
33. School of Medicine Faculty Relations Committee, 2002 - 2005
34. Emory University Senate, 2002 - 2004
35. Advisory Council, GDBBS, 2003 - 2009

36. Neuroscience Research Institute Planning Committee, 2003 - 2009
37. Clinical Trials Advisory Committee, 2002 - 2009
38. Search Committee, General Clinical Research Center Director, 2005
39. Subcommittee on Discovery, Medical School Curriculum Committee, 2005
40. Search Committee, Marcus Center Medical Director, 2005
41. Ad Hoc Committee on Grant Processing, 2005 - 2006
42. **Error! Bookmark not defined.**Search Committee, Chair of Ophthalmology, 2005 - 2006
43. Comprehensive Neurosciences Center Executive Committee, 2006 - 2009
44. Search Committee, Chair of Dermatology, 2007 - 2008
45. Woodruff Health Sciences Center Research Advisory Committee, 2007 - 2008

#### **UNIVERSITY OF MIAMI COMMITTEES**

1. Associate Member, John P. Hussman Institute for Human Genomics, 2010 - Present
2. Dean's Research Cabinet, 2010 - 2012, 2015 - Present
3. Chairs Executive Committee, 2010 - 2013
4. Member, Search Committee, Director, Sylvester Comprehensive Cancer Center, 2010 - 2011
5. Physician Leadership Group, Jackson Memorial Hospital-University of Miami, 2010 - Present
6. Academic Board, University of Miami Hospital, 2011 - 2012
7. M.D./Ph.D. Program Executive Oversight Committee, 2011 - Present
8. Medical Executive Committee, University of Miami Hospital, 2010 - Present
9. Search Committee, University of Miami Hospital CEO and CMO, 2012
10. Board of Directors, University of Miami Medical Group, 2012 - Present
11. Revenue Cycle Committee, University of Miami Miller School of Medicine, 2012 - 2013
12. Medical Research Enterprise Program (MEDREPS) Committee, University of Miami Miller School of Medicine, 2012 - Present
13. Resource Allocation Committee, Miami Miller School of Medicine, 2012 - 2014
14. Chair, Search Committee, Chair of Department of Pediatrics, 2013 - 2015
15. Chair, Faculty Assistance Committee, 2013 - Present
16. Executive Committee, University of Miami Medical Group, 2013 - Present
17. Board of Directors, UM/VA Oversight Committee, 2013 - Present
18. Search Committee, Senior Associate Dean for Faculty Affairs, 2014 - 2015
19. Associate Member, Sylvester Cancer Center, 2009 - 2014
20. Member, Sylvester Cancer Center, 2014 - Present
21. Scientific Steering Committee, Sylvester Cancer Center, 2014 - Present
22. MD, PhD Program and Executive Committees, 2014 - 2016
23. Search Committee, Chair of Surgery, 2014 - 2015
24. Internal Advisory Board, The Institute for Children and Adolescents with Cancer, Sylvester Cancer Center, 2015 - Present

25. Executive Committee, Board of Directors University of Miami Medical Group, 2014 - Present
26. Regenerative Medicine Cabinet, 2015 - Present
27. Precision Medicine Task Force, Miller School of Medicine, 2015 - Present
28. Research Cabinet, Miller School of Medicine, 2015 - Present
29. Credentials Committee, University of Miami Medical Group, 2017 - Present

#### **PROFESSIONAL SOCIETIES**

Society of the Sigma XI  
Society for Neuroscience  
American Association for the Advancement of Science  
New York Academy of Sciences  
International Society for Psychoneuroendocrinology  
American Society for Neurochemistry  
International Society for Neurochemistry  
The Endocrine Society  
International Society of Neuroendocrinology  
Society of Biological Psychiatry  
American Medical Association  
American Psychiatric Association (Member, 1982; Fellow, 1994; Distinguished Fellow, 2003)  
American College of Neuropsychopharmacology (Member, 1983; Fellow, 1986)  
American College of Psychiatrists (Member, 1988; Fellow, 1992)  
Psychiatric Research Society  
American Association for Geriatric Psychiatry  
American Association of Chairmen of Departments of Psychiatry  
The International Society for the Investigation of Stress  
Medical Association of Georgia  
The International Neuropeptide Society (Fellow, 1994)  
Association for Research in Nervous and Mental Diseases  
Society for Behavioral Neuroendocrinology  
American Psychosomatic Society  
International Society for Traumatic Stress Studies  
American Society of Clinical Psychopharmacology  
World Psychiatric Association  
Florida Psychiatric Society

#### **RESEARCH REPORTS AND REVIEWS**

1. Nemeroff CB and Crisley FD. 1975. Lack of protection by pyridoxine or hydrazine pretreatment against monosodium L-glutamate-induced seizures. *Pharmacol. Biochem. Behav* 3:927-929.
2. Prange AJ, Jr., Breese GR, Jahnke GD, Martin BR, Cooper BR, Cott JM, Wilson IC, Alltop LB, Lipton MA, Bissette G, Nemeroff CB and Loosen PT. 1975. Modification of pentobarbital effects by natural and synthetic polypeptides: dissociation of brain and pituitary effects. *Life Sci.* 16:1907-1914.
3. Nemeroff CB, Prange AJ, Jr., Bissette G, Breese GR and Lipton MA. 1975. Thyrotropin-releasing hormone (TRH) and its beta-alanine analogue: potentiation of the anticonvulsant potency of phenobarbital in mice. *Psychopharmacol. Comm* 1:305-317.
4. Nemeroff CB and Crisley FD. 1975. Monosodium L-glutamate-induced convulsions: temporary alteration in blood-brain barrier permeability to plasma proteins. *Environ. Physiol. Biochem* 5:389-395.
5. Bissette G, Nemeroff CB, Loosen PT, Prange AJ, Jr., Breese GR and Lipton MA. 1976. Comparison of the potency of TRH, ACTH<sub>4-10</sub>, and related peptides to reverse pentobarbital-induced narcosis and hypothermia. In: *Hypothalamus and Endocrine Functions* (F Labrie, J Meites and G Pelletier, Eds). Plenum Press, New York 478-479.
6. Prange AJ, Jr., Lipton MA, Bissette G, Nemeroff CB, Breese GR, Loosen PT, Cooper BR and Wilson IC. 1976. Behavioral effects of peptides in animals: further experience with pentobarbital antagonism. *Psychopharmacol Bull* 13:58-59.
7. Lipton MA, Prange AJ, Jr., Nemeroff CB, Breese GR and Wilson IC. 1977. Thyrotropin-releasing hormone - central effects in man and animals. In: *Neuroregulators and Psychiatric Disorders* (E Usdin, DA Hamberg and J Barchas, Eds). Asilomar, California, Oxford University Press, New York, 258-266.
8. Bissette G, Nemeroff CB, Loosen PT, Prange AJ, Jr. and Lipton MA. 1976. Comparison of the analeptic potency of TRH, ACTH<sub>4-10</sub>, LHRH and related peptides. *Pharmacol. Biochem. Behav.* 5 (Suppl. 1):135-138.
9. Prange AJ, Jr., Nemeroff CB, Lipton MA, Breese GR and Wilson IC. 1978. Peptides and the central nervous system. In: *The Handbook of Psychopharmacology, Vol. 13* (LL Iversen, SD Iversen and SH Snyder, Eds). Plenum Press, New York 1-107.
10. Prange AJ, Jr., Nemeroff CB, Loosen PT, Lipton MA, Bissette G, Breese GR and Wilson IC. 1977. Hormones in the treatment of nervous and mental disease: present status and development. In: *Neuropsychopharmacology* (P Deniker, C Radouco-Thomas and A Villeneuve, Eds). Pergamon Press, Oxford, 995-1003.
11. Lipton MA, Bissette G, Nemeroff CB, Loosen PT and Prange AJ, Jr. 1976. Neurotensin: a possible mediator of thermoregulation in the mouse. In: *Drugs, Biogenic Amines and Body Temperature* (PJ Lomax, Ed). Third International Symposium on the Pharmacology of Thermoregulation, Banff, Alberta, Canada, S Karger, Basel 54-57.

12. Bissette G, **Nemeroff CB**, Loosen PT, Prange AJ, Jr. and Lipton MA. 1976. Hypothermia and intolerance to cold induced by intracisternal administration of the hypothalamic peptide neurotensin. *Nature* 262:607-609.
13. Prange AJ, Jr., Lipton MA, **Nemeroff CB** and Wilson IC. 1977. The role of hormones in depression. *Life Sci.* 20:1305-1318.
14. Lipton MA, **Nemeroff CB**, Bissette G and Prange AJ, Jr. 1977. The role of drugs in the prevention and treatment of mental retardation. In: *Proceedings of the International Association for the Study of Mental Deficiency* (M Begab, Ed). Research to Practice in Mental Retardation, Vol. III, Biomedical Aspects, Univ. Park Press, Baltimore 203-212.
15. **Nemeroff CB**, Grant LD, Bissette G, Ervin GN, Harrell LE and Prange AJ, Jr. 1977. Growth, endocrinological and behavioral deficits after monosodium L-glutamate in the neonatal rat: possible involvement of arcuate dopamine neuron damage. *Psychoneuroendocrinology* 2:179-196.
16. **Nemeroff CB**, Bissette G, Prange AJ, Jr., Loosen PT, Barlow TS and Lipton MA. 1977. Neurotensin: central nervous system effects of a hypothalamic peptide. *Brain Res.* 128:485-496.
17. Lipton MA and **Nemeroff CB**. 1978. An overview of the biogenic amine hypothesis of schizophrenia. In: *Phenomenology and Treatment of Schizophrenia* (WE Fann, I Karacan, AD Pokorny and RL Williams, Eds). Spectrum Publications, Inc., New York 431-453.
18. Prange AJ, Jr., **Nemeroff CB** and Lipton MA. 1978. Behavioral effects of peptides: basic and clinical studies. In: *Psychopharmacology: A Generation of Progress* (MA Lipton, A DiMascio and KF Killam, Eds). Raven Press, New York 441-458.
19. **Nemeroff CB**, Diez JA, Bissette G, Prange AJ, Jr., Harrell LE and Lipton MA. 1977. Lack of effect of chronically administered thyrotropin-releasing hormone (TRH) on regional rat brain tyrosine hydroxylase activity. *Pharmacol. Biochem. Behav.* 6:467-469.
20. Carson KA, **Nemeroff CB**, Rone MS, Youngblood WW, Prange AJ, Jr., Hanker JS and Kizer JS. 1977. Biochemical and histochemical evidence for the existence of a tuberoinfundibular cholinergic pathway in the rat. *Brain Res.* 129:169-173.
21. **Nemeroff CB**, Konkol RJ, Bissette G, Youngblood WW, Martin JB, Brazeau P, Rone MS, Prange AJ, Jr., Breese GR and Kizer JS. 1977. Analysis of the disruption in hypothalamic-pituitary regulation in rats treated neonatally with monosodium L-glutamate (MSG): evidence for the involvement of tuberoinfundibular cholinergic and dopaminergic systems in neuroendocrine regulation. *Endocrinology* 101:613-622.
22. **Nemeroff CB**, Loosen PT, Bissette G, Manberg PJ, Wilson IC, Lipton MA and Prange AJ, Jr. 1978. Pharmaco-behavioral effects of hypothalamic peptides in animals and man: focus on thyrotropin-releasing hormone and neurotensin. *Psychoneuroendocrinology* 3:279-310.
23. Prange AJ, Jr., **Nemeroff CB** and Loosen PT. 1978. Behavioral effects of hypothalamic peptides. In: *Centrally Acting Peptides* (J Hughes, Ed). The Macmillan Co., London 99-118.

24. Loosen PT, **Nemeroff CB**, Bissette G, Burnett GB, Prange AJ, Jr. and Lipton MA. 1978. Neurotensin-induced hypothermia in the rat: structure- activity studies. *Neuropharmacology* 17:109-113.
25. Bissette G, **Nemeroff CB**, Loosen PT, Breese GR, Burnett GB, Lipton MA and Prange AJ, Jr. 1978. Modification of pentobarbital-induced sedation by natural and synthetic peptides. *Neuropharmacology* 17:229-237.
26. **Nemeroff CB**, Lipton MA and Kizer JS. 1978. Models of neuroendocrine regulation: use of monosodium glutamate as an investigational tool. *Dev. Neurosci.* 1:102-109.
27. Lipton MA and **Nemeroff CB**. 1978. The biology of aging and its role in depression. In: *Aging: The Process and the People* (G Usdin and CK Hofling, Eds). Brunner/Mazel Publishers, New York 47-95.
28. **Nemeroff CB**, Bissette G and Kizer JS. 1978. Reduced hypothalamic content of immunoreactive LHRH-like activity in genetically obese (ob/ob) mice. *Brain Res.* 146:385-387.
29. **Nemeroff CB** and Prange AJ, Jr. 1978. Peptides and Psychoneuroendocrinology: a perspective. *Arch. Gen. Psychiatry* 35:999-1010.
30. Greeley GH, Jr., Nicholson GF, **Nemeroff CB**, Youngblood WW and Kizer JS. 1978. Direct evidence that the arcuate nucleus-median eminence tuberoinfundibular system is not of primary importance in the feedback regulation of luteinizing hormone and follicle-stimulating hormone secretion in the castrated rat. *Endocrinology* 103:170-175.
31. **Nemeroff CB**, Osbahr AJ, III, Bissette G, Jahnke G, Lipton MA and Prange AJ, Jr. 1978. Cholecystokinin inhibits tail pinch-induced eating in rats. *Science* 200:793-794.
32. Bissette G, Manberg P, **Nemeroff CB** and Prange AJ, Jr. 1978. Neurotensin, a biologically active peptide. *Life Sci.* 23:2173-2182.
33. Kizer JS, **Nemeroff CB** and Youngblood WW. 1978. Neurotoxic amino acids and structurally related analogs. *Pharmacol. Rev.* 29:301-318.
34. Prange AJ, Jr., **Nemeroff CB**, Loosen PT and Wilson IC. 1978. Pharmacobehavioral effects of oligopeptides endogenous to brain. *Psychopharmacol. Bull.* 14:20-23.
35. Carson KA, **Nemeroff CB**, Rone MS, Nicholson GF, Kizer JS and Hanker JS. 1978. Experimental studies on the ultrastructural localization of acetylcholinesterase in the mediobasal hypothalamus of the rat. *J. Comp. Neurol.* 182:201-220.
36. Prange AJ, Jr., **Nemeroff CB**, Loosen PT, Bissette G, Osbahr AJ, III, Wilson IC and Lipton MA. 1979. Behavioral effects of thyrotropin- releasing hormone in animals and man: a review. In: *Central Nervous System Effects of Hypothalamic Hormones and Other Peptides* (R Collu, A Barbeau, JR Ducharme and JG Rochefort, Eds). Raven Press, New York 75-96.
37. **Nemeroff CB**, Bissette G, Greeley GH, Jr., Mailman RB, Martin JB, Brazeau P and Kizer JS. 1978. Effects of acute administration of monosodium L-glutamate (MSG), atropine or haloperidol on anterior pituitary hormone secretion in the rat. *Brain Res* 156:198-201.

38. Lipton MA, Ervin GN, Birkemo LS, **Nemeroff CB** and Prange AJ, Jr. 1979. Neurotensin-neuroleptic similarities: an example of peptide-catecholamine interactions. In: *Catecholamines: Basic and Clinical Frontiers* (E Usdin, IJ Kopin and JD Barchas, Eds), Pergamon Press, New York, 657-662.
39. Lipton MA, Mailman RB and **Nemeroff CB**. 1979. Vitamins, megavitamin therapy and the nervous system. In: *Nutrition and the Brain, Volume III* (RJ Wurtman and JJ Wurtman, Eds), Raven Press, New York 183-264.
40. Manberg PJ, **Nemeroff CB** and Prange AJ, Jr. 1979. Thyrotropin-releasing hormone and amphetamine: a comparison of pharmacological profiles in animals. *Prog. Neuropsychopharmacol. Biol. Psychiatry* 3:303-314.
41. Osbahr AJ, III, **Nemeroff CB**, Manberg PJ and Prange AJ, Jr. 1979. Centrally administered neurotensin: activity in the Julou-Courvoisier muscle relaxation test in mice. *Eur. J. Pharmacol* 54:299-302.
42. Prange AJ, Jr., Loosen PT and **Nemeroff CB**. 1979. Peptides: application to research in nervous and mental disorders. In: *New Frontiers in Psychotropic Drug Research* (S Fielding, Ed). Futura Publishing Co. Inc., New York 117-189.
43. **Nemeroff CB**, Bissette G, Manberg PJ, Moore SI, Ervin GN, Osbahr AJ and Prange AJ. 1980. Hypothermic responses to neurotensin in vertebrates. In: *Thermoregulatory Mechanisms and Their Therapeutic Implications* (B Cox, P Lomax, AS Milton and E Schonbaum, Eds). Proc. Pharmacology of Thermoregulation 4th Int. Symp., Oxford, S. Karger, Basel 180-185.
44. Lipton MA, **Nemeroff CB** and Mailman RB. 1979. Hyperkinesis and food additives. In: *Nutrition and the Brain, Volume 4* (RJ Wurtman and JJ Wurtman, Eds). Raven Press, New York, 1-27.
45. Prange AJ, Jr., **Nemeroff CB**, Bissette G, Manberg PJ, Osbahr AJ, III, Burnett GB, Loosen PT and Kraemer GW. 1979. Neurotensin: distribution of hypothermic response in mammalian and submammalian vertebrates. *Pharmacol. Biochem. Behav.* 11:473-477.
46. **Nemeroff CB**, Osbahr AJ, III, Manberg PJ, Ervin GN and Prange AJ, Jr. 1979. Alterations in nociception and body temperature after intracisternal administration of neurotensin,  $\beta$ -endorphin, other endogenous peptides and morphine. *Proc. Natl. Acad. Sci. USA* 76:5368-5371.
47. **Nemeroff CB**. 1980. Neurotensin: perchance an endogenous neuroleptic? *Biol. Psychiatry* 15:283-302.
48. **Nemeroff CB**, Bissette G, Martin JB, Brazeau P, Vale W, Kizer JS and Prange AJ, Jr. 1980. Effect of chronic treatment with thyrotropin-releasing hormone (TRH) or an analog of TRH (linear  $\beta$ -alanine TRH) on hypothalamic-pituitary-thyroid axis. *Neuroendocrinology* 30:193-199.
49. **Nemeroff CB**, Mason GA, Hatley OL, Jahnke G and Prange AJ, Jr. 1980. Lack of effect of a behaviorally active dose of cholecystokinin octapeptide upon aromatic amino acid levels in plasma and brain. *Brain Res* 184:529-532.

50. **Nemeroff CB**, Bissette G, Manberg PJ, Osbahr AJ, III, Breese GR and Prange AJ, Jr. 1980. Neurotensin-induced hypothermia: evidence for an interaction with dopaminergic systems and the hypothalamic-pituitary-thyroid axis. *Brain Res* 195:69-84.
51. **Nemeroff CB**, Bissette G, Manberg PJ, Luttinger D and Prange AJ, Jr. 1984. Effects of hypothalamic peptides on the central nervous system. In: *Peptides, Hormones and Behavior* (CB Nemeroff and AJ Dunn, Eds). Spectrum Publications, Inc., New York, 217-272.
52. **Nemeroff CB**, Luttinger D and Prange AJ, Jr. 1980. Neurotensin: central nervous system effects of a neuropeptide. *Trends Neurosci* 3:212-215.
53. Mason GA, **Nemeroff CB**, Luttinger D, Hatley OL and Prange AJ, Jr. 1980. Neurotensin and bombesin: differential effects on body temperature of mice after intracisternal administration. *Regul. Pept* 1:53-60.
54. Prange AJ, Jr., **Nemeroff CB** and Loosen PT. 1980. Psychoendocrine aspects of depression. In: *Comparative Aspects of Neuroendocrine Control of Behavior* (C Valverde-Rodriguez and H Arechige, Eds). S Karger, Basel, Front. Hormone Res 6:176-191.
55. Luttinger D, **Nemeroff CB**, King RA, Ervin GN and Prange AJ, Jr. 1981. The effect of injection of neurotensin into the nucleus accumbens on behaviors mediated by the mesolimbic dopamine system in the rat. In: *The Neurobiology of the Nucleus Accumbens* (RB Chronister and JF DeFrance, Eds.). Haer Institute for Electrophysiological Research, 322-332.
56. Grant LD, **Nemeroff CB** and Bissette G. 1984. Distribution of peptides in the central nervous system. In: *Peptides, Hormones and Behavior* (CB Nemeroff and AJ Dunn, Eds.). Spectrum Publications, Inc., New York, 37-97.
57. **Nemeroff CB**. 1981. Monosodium glutamate-induced neurotoxicity: review of the literature and call for further research. In: *Nutrition in Health and Disease* (SA Miller, Ed). Franklin Institute Press, Philadelphia, 117-211.
58. Osbahr AJ, III, **Nemeroff CB**, Luttinger D, Mason GA and Prange AJ, Jr. 1981. Neurotensin-induced antinociception in mice: antagonism by thyrotropin-releasing hormone. *J. Pharmacol. Exp. Ther.* 217:645-651.
59. Ervin GN, Birkemo LS, **Nemeroff CB** and Prange AJ, Jr. 1981. Neurotensin blocks certain amphetamine-induced behaviours. *Nature* 291:73-76.
60. **Nemeroff CB**, Prange AJ, Jr., Luttinger D, Hernandez DE, King, RA and Burgess SK. 1981. Similarities and differences in the effects of centrally administered neurotensin and neuroleptics. *Psychopharmacol. Bull.* 17:145-147.
61. Luttinger D, **Nemeroff CB**, Mason GA, Frye GD, Breese GR and Prange AJ, Jr. 1981. Enhancement of ethanol-induced sedation and hypothermia by centrally administered neurotensin,  $\beta$ -endorphin and bombesin. *Neuropharmacology* 20:305-309.
62. Frye GD, Luttinger D, **Nemeroff CB**, Vogel RA, Prange AJ, Jr. and Breese GR. 1981. Modification of the actions of ethanol by centrally active peptides. *Peptides* 2(Suppl. 1):99-106.

63. Ervin GN, Schmitz SA, **Nemeroff CB** and Prange AJ, Jr. 1981. Thyrotropin-releasing hormone and amphetamine produce different patterns of behavioral excitation in rats. *Eur. J. Pharmacol.* 72:35-43
64. **Nemeroff CB**, Lamartiniere CA, Mason GA, Squibb RE, Hong JS and Bondy SC. 1981. Marked reduction in gonadal steroid hormone levels in rats treated neonatally with monosodium L-glutamate: further evidence for disruption of hypothalamic-pituitary-gonadal axis regulation. *Neuroendocrinology* 33:265-267.
65. **Nemeroff CB**, Luttinger D, Hernandez DE, Kalivas PW, Widerlov E, Breese GR and Prange AJ, Jr. 1981. Neurotensin, a peptide with certain neuroleptic-like properties. In: *Proceedings of the Third World Congress of Biological Psychiatry* (C Perris, G Struwe and B Jansson, Eds.). Elsevier, Amsterdam, 363-367.
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67. Luttinger D, **Nemeroff CB** and Prange AJ, Jr. 1982. The effects of neuropeptides on discrete-trial conditioned avoidance responding. *Brain Res.* 237:183-192.
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#### **BOOK REVIEWS, LETTERS TO THE EDITOR, AUDIO TAPES AND OTHER PUBLICATIONS**

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607. Sharma T, Lieberman JA, McEvoy JP, Perkins DO, Hamer RM, Zipursky RB, Kahn RS, Gur RE, Centorrino F, Glick I, Green AI, **Nemeroff CB**, Rothschild AJ, Strakowski SM, Tohen M and Tollefson GD. 2003. Long-term efficacy and safety of atypical and conventional antipsychotic drugs in first episode schizophrenia. 16<sup>th</sup> Congress of the European College of Neuropsychopharmacology, S134.
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636. **Nemeroff CB.** 2003. The pathophysiology and psychopharmacology of comorbid cardiovascular disease and depression. American Psychiatric Association 156<sup>th</sup> Annual Meeting, 24A.
637. **Nemeroff CB.** 2004. SSRIs dual reuptake inhibitors, and isomers: myths, facts, and clinical reality. WFSBP International Congress of Biological Psychiatry, 5:5108.
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671. **Nemeroff CB**. 2005. Novel therapeutic approaches in the treatment of affective disorders. Endocrine Society, 87<sup>th</sup> Annual Meeting, 65.
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699. Martin EI, Chhatwal JP, Nair HP, Owens MJ, **Nemeroff CB** and Ressler KJ. 2005. Development of CRF and CRF neuron-specific lentiviral vectors for use in brain-behavior studies. Soc. Neurosci 35<sup>th</sup> Annual Meeting, 340.1 (online).
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820. Michopoulos V., Nishitani S., Javanovic T., Gould F., **Nemeroff C.B.**, Meyers A.J., Rothbaum B.O., and Ressler K.J. FemaleSpecific Patterns of Methylation Associated with Risk of PTSD Development: A Prospective Study. 71<sup>st</sup> Annual Scientific Convention and Meeting of the Society of Biological Psychiatry. Atlanta, Georgia. May 14, 2016.
821. Smith A.K., Nishitani S., Michopoulos V., Jovanovic T., **Nemeroff C.B.**, Meyers A.J., Rothbaum B., and Ressler K.J. Epigenome-wide association study to focus on the development of PTSD in traumatized ED patients. 46<sup>th</sup> Annual Conference of th International Society of Psychoneuroendocrinology. Miami, Florida. September 9, 2016.
822. Gonzalez Alfonso A., Gould F., Kirmse R., Ressler K., and **Nemeroff C.B.** Smoking (Tobacco), PTSD and Depression. 46<sup>th</sup> Annual Conference of th International Society of Psychoneuroendocrinology. Miami, Florida. September 10, 2016.
823. Kimmel A., Gould F., Kirmse R., Gomez N., Ressler K., and **Nemeroff C.B.** Non-sexual interpersonal trauma and PTSD. 46<sup>th</sup> Annual Conference of th International Society of Psychoneuroendocrinology. Miami, Florida. September 10, 2016.
824. **Nemeroff C.B.** Personalized Medicine in Psychiatry: The New Holy Grail. American Psychiatric Association 2017 Annual Meeting, San Diego, California, May 20, 2017.

825. **Nemeroff C.B.** Clinical Evidence for Alterations in CRF-Containing Circuits in Mood and Anxiety Disorders. American Psychiatric Association 2017 Annual Meeting, San Diego, California, May 20, 2017.
826. **Nemeroff C.B.** Targeting the HPA Axis and Novel Strategies to Treat Psychiatric Disorders. American Psychiatric Association 2017 Annual Meeting, San Diego, California, May 24, 2017.
827. Gould F., Dunlop B., Rosenthal J., Iosifescu D., Mathew S., Neylan T., Rothbaum B., **Nemeroff C.B.**, and Harvey P. 2017. The Temporal Stability of Cognitive Functioning and Functional Capacity in Women with PTSD. *Biological Psychiatry*, Supplement 10:S213.
828. Pape J., Carrillo-Roa T., Iosifescu D., Mathew S., Neylan T., **Nemeroff C.B.**, Mayberg H., Dunlop B. and Binder E. 2017. DNA Methylation Biomarkers and Treatment Effects of a Corticotropin Releasing Hormone Type 1 Receptor Antagonist in a Biologically-Defined Subset of PTSD-Patients. *Biological Psychiatry*, Supplement 10:S222.
829. **Nemeroff C.B.** and Dunlop B. 2017. The CRH-1 Receptor Antagonist Saga in Mood and Anxiety Disorders: The Good, the Bad and the Ugly. *Biological Psychiatry*, Supplement 10:S279.
830. Bernanke J., Galfalvy H., Mortali M., Hoffman L., Haas A., Moutier C., **Nemeroff C.B.**, Stanley B., Clayton P., Harkavy-Friedman J., and Oquendo M. 2017. Suicidal Ideation and Behavior in Institutions of Higher Learning: Categorizing Levels of Risk. *Biological Psychiatry*, Supplement 10:S87-S88.
831. Vega ML, Newport GC, Bozhdaraj D, Saltz SB, **Nemeroff CB**, Newport DJ. Meta-analysis of prenatal antidepressant exposure as risk factor for autism: impact of comparison group definition. American Psychiatric Association 171<sup>st</sup> Annual Meeting, New York, 2018. Abstract 1724.
832. Vega ML, Newport GC, Bozhdaraj D, Saltz SB, **Nemeroff CB**, Newport DJ. Meta-analysis of prenatal antidepressant exposure as risk factor for autism: impact of comparison group definition. Steiner Young Investigator Award. North American Society for Psychosocial Obstetrics & Gynecology Biennial Meeting, Philadelphia, PA, 2018.

## **INVITED PRESENTATIONS**

1. Central nervous system effects of peptides. Division of Neurology, Montreal General Hospital, McGill University, November 14, 1976.
2. Discussant, Round Table on Behavioral Neurochemistry of Peptides. American Society for Neurochemistry, Eighth Annual Meeting, Denver, Colorado, March 13 - 18, 1976.
3. Participant, Symposium on Central Effects of Polypeptides. International Society of Psychoneuroendocrinology, Eighth Annual Meeting, Atlanta, Georgia, May 8 - 12, 1977.
4. Brain effects of endogenous peptides. McLean Hospital Research Laboratory, Harvard Medical School, Belmont, Massachusetts, March 2, 1977.
5. Co-chairman, Symposium on Central Nervous System Effects of Endogenous Peptides. Eleventh Annual Winter Conference on Brain Research, Keystone, Colorado, January 21 - 28, 1978.
6. Central effects of peptides: Basic and clinical studies. Grand Rounds, Department of Psychiatry, Cedars of Sinai Hospital, University of California-Los Angeles, November 7, 1977.
7. Role of tubero-infundibular systems in neuroendocrine homeostasis. Laboratories of Neuroendocrinology, The Salk Institute for Biological Studies, La Jolla, California, November 11, 1977.
8. Tuberoinfundibular systems and neuroendocrine homeostasis. Department of Neuroscience, School of Medicine, University of Florida, Gainesville, Florida, November 22, 1977.
9. Peptides and neuroendocrinology. The Institute for Behavioral Genetics, University of Colorado, Boulder, Colorado, January 23, 1978.
10. Short course in Neuroendocrinology. Department of Physiology, School of Medicine, The Catholic University, Santiago, Chile, July 15 - August 15, 1978.
11. Behavioral effects of hypothalamic peptides; and experimental studies on neural control of the anterior pituitary. Institute of Physiology, University Austral de Chile, Valdivia, Chile, July 28, 1978.
12. Behavioral and pharmacological effects of endogenous peptides. Department of Pharmacology, School of Medicine, Washington University, St. Louis, Missouri, November 9, 1978.
13. Hypothalamic circuits and neuroendocrine homeostasis. Laboratory of Behavioral Neurotoxicology, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, February 28, 1979.
14. Chairman, Round Table Discussion on Special Problems in Peptide Research. American Society for Neurochemistry, Tenth Annual Meeting, Charleston, South Carolina, March 11 - 16, 1979.
15. Central nervous system effects of neuropeptides. The Marine Biomedical Institute, University of Texas Medical Branch, Galveston, Texas, June 28, 1979.

16. Brain effects of neurotensin. Department of Anatomy, School of Medicine, University of South Florida, Tampa, Florida, July 2, 1979.
17. CNS effects of endogenous peptides. MRC Neurochemical Pharmacology Unit, Department of Pharmacology, Cambridge University Medical School, Cambridge, England, August 6, 1979.
18. Brain effects of neurotensin, an endogenous peptide. North Carolina Department of Mental Health Research, Dorothea Dix Hospital, Raleigh, North Carolina, November 27, 1979.
19. Chairman and Participant, Round Table Discussion on Do Peptides Fulfill the Criteria for Neurotransmitter Candidate? American Society for Neurochemistry, 11th Annual Meeting, Houston, Texas, March 2 - 7, 1980.
20. Participant, Symposium on Nutrition and Behavior, New Research Directions: Neurotoxic Amino Acids. Sponsored by the Franklin Research Center and the National Science Foundation, Williamsburg, Virginia, March 10 - 12, 1980.
21. Central nervous system effects of neurotensin. Rudolph Magnus Institute for Pharmacology, University of Utrecht, Utrecht, Netherlands, June 4, 1980.
22. Everything you ever wanted to know and need to know about neurotensin. Centre de Neurochimie, Centre National de la Recherche Scientifique, Strasbourg, France, June 23, 1980.
23. Participant, Symposium on Neurotensin and Neuroleptics: Similarities and Differences. Annual Meeting, American College of Neuropsychopharmacology, San Juan, Puerto Rico, December, 1980.
24. Central nervous system effects of neurotensin. Neurobiology Seminar Series, Columbia University College of Physicians and Surgeons, New York, March 17, 1981.
25. Behavioral and neurochemical effects of neurotensin. School of Medicine, University of Sherbrooke, Sherbrooke, Canada, May 29, 1981.
26. Neurochemical and pharmaco-behavioral effects of neurotensin. Department of Physiology, University of Texas Southwestern Medical School, Dallas, Texas, October 26, 1981.
27. Look what neurotensin does. Walter Reed Army Institute of Medical Research, Walter Reed Army Medical Center, Washington, DC, December 7, 1981.
28. Central nervous system effects of neurotensin. Biological Psychiatry Branch, National Institute of Mental Health, Bethesda, Maryland, December 8, 1981.
29. Central nervous system effects of neurotensin, an endogenous peptide: implications for psychiatry. Grand Rounds, Department of Psychiatry, University of North Carolina School of Medicine, Chapel Hill, North Carolina, February 4, 1982.
30. Central nervous system effects of neurotensin. Glenolden Laboratory, E.I. DuPont De Nemours & Company, Glenolden, Pennsylvania, June 15, 1982.
31. Is neurotensin an endogenous neuroleptic? Astra Pharmaceuticals, Sodertalje, Sweden, August 17, 1982.

32. Interactions of neuropeptides with brain dopamine systems. Department of Pharmacology, University of Gothenberg, Gothenberg, Sweden, August 19, 1982.
33. University of Lund, Department of Histology, "Effects of neuropeptides on the central nervous system", Lund, Sweden, August 20, 1982.
34. Department of Psychiatry, Karolinska Institute, St. Goran's Hospital, "CNS effects of neuropeptides", Stockholm, Sweden, August 25, 1982.
35. Wenner-Gren International Symposium on Excitotoxins, "Effects of neurotoxic amino acids on neuroendocrine regulation", Stockholm, Sweden, August 26 - 27, 1982.
36. Veterans Administration Hospital, Department of Psychiatry, "Interactions of neuropeptides with CNS dopamine systems", Minneapolis, Minnesota, September 29, 1982.
37. American Pain Society, Third Annual Meeting, Chairman and participant in symposium "Analgesic effects of non-opioid peptides", Miami Beach, Florida, October 30, 1982.
38. Co-chairman and participant, Symposium on Neuropeptides and Schizophrenia - Spinal Fluid and Brain Studies. American College of Neuropsychopharmacology, San Juan, Puerto Rico, December 16, 1982.
39. Modification of brain dopamine systems by neuropeptides: Implications for psychiatry. Department of Psychiatry, University of Minnesota School of Medicine, Minneapolis, Minnesota, January 25, 1983.
40. Interactions of neuropeptides with brain dopamine systems. Department of Psychiatry, University of California - Irvine, Irvine, California, February 8, 1983.
41. Clinical significance of brain neuropeptides. The Salk Institute for Biological Studies, La Jolla, California, February 9, 1983.
42. Brain effects of neuropeptides. Department of Psychiatry, University of Utah College of Medicine, Salt Lake City, Utah, February 10, 1983.
43. Central nervous system effects of neuropeptides: Implications for psychiatry. Department of Psychiatry, The Medical College of Pennsylvania, Philadelphia, Pennsylvania, February 14, 1983.
44. Neuropeptides and brain dopamine systems. Department of Pharmacology, Duke University School of Medicine, Durham, North Carolina, February 22, 1983.
45. Interactions of neuropeptides with CNS dopamine systems. Mental Health Research Institute, University of Michigan School of Medicine, Ann Arbor, Michigan, March 3, 1983.
46. Clinical use of the dexamethasone suppression test. Grand Rounds (with Dwight Evans), Department of Psychiatry, University of North Carolina School of Medicine, Chapel Hill, North Carolina, March 24, 1983.
47. Peptide-catecholamine interactions: Focus on neuropeptides. Department of Physiology and Pharmacology, University of Southampton, Southampton, England, April 14, 1983.

48. Non-opioid peptides and analgesia. Symposium on Peptides, Society for Drug Research, Bristol, England, April 18 - 20, 1983.
49. Neurotensin-dopamine interactions: basic and clinical studies. Department of Physiology and Pharmacology, University of Nottingham, Nottingham, England, June 9, 1983.
50. Interaction of neurotensin and dopamine in limbic structures. Fifth International Catecholamine Symposium, Goteborg, Sweden, June 14, 1983.
51. Use of the dexamethasone suppression test in psychiatry. Symposium on Neuroendocrine Testing in Psychiatry, Free University of Brussels, Hospital Erasme, Brussels, Belgium, September 17, 1983.
52. Neurotensin and related peptides: Basic and clinical studies. University of Louvain, Louvain, Belgium, September 19, 1983.
53. Interactions of neurotensin with the mesolimbic dopamine system: neurobiological and clinical implications. Chairman and participant, Panel on Mesolimbic and Mesocortical Systems: Basic and Clinical Studies, American College of Neuropsychopharmacology, San Juan, Puerto Rico, December 12, 1983.
54. Participant, Panel on Issues in Clinical Psychobiological - Psychopharmacologic Research Training. American College of Neuropsychopharmacology, San Juan, Puerto Rico, December 14, 1983.
55. Participant, Workshop on Neurotensin. Winter Conference on Brain Research, Steamboat, Colorado, January 24, 1983.
56. Dexamethasone suppression test: clinical applications. Biological Markers for Psychiatry - Toward DSM IV, Atlanta, Georgia, February 24, 1984.
57. Clinical utility of the dexamethasone suppression test. Grand Rounds, Department of Psychiatry, Duke University Medical Center, March 1, 1984.
58. The dexamethasone suppression test. Grand Rounds, John Umstead Hospital, Butner, North Carolina, March 22, 1984.
59. Overview of neuropeptides (Graduate Course in Pharmacology) and Neurotensin-dopamine interactions: basic and clinical studies (research seminar), Department of Pharmacology, Emory University School of Medicine, April 24, 1984.
60. Clinical utility of the dexamethasone suppression test. Department of Psychiatry, Manhattan Veterans Administration Hospital, New York University School of Medicine, New York, NY, April 30, 1984.
61. Neurotensin: an overview. Neuropsychopharmacology Symposium, Albert Einstein College of Medicine, Bronx, New York, May 2, 1984.
62. The dexamethasone suppression test. Biological Markers in Psychiatry - Society of Biological Psychiatry, Los Angeles, California, May 6, 1984.

63. Chairman and Participant, Non-Opioid Peptide Symposium, First International Symposium on Endocoids, Fort Worth Texas, May 23 - 26, 1984.
64. Panel on Scientific Reviewers, North Carolina Alcoholism Research Authority, Raleigh, North Carolina, June 1, 1984.
65. Co-Chairman and participant, Symposium on Hypothalamic Peptides, Fifteenth International Congress of the International Society of Psychoneuroendocrinology, Vienna, Austria, July 15 - 19, 1984.
66. Interaction of neuropeptides and dopamine systems - focus on neotensin. Invited participant, Dopamine '84 Symposium, Southampton, England, August 5 - 8, 1984.
67. Non-opioid neuropeptides: focus on neotensin and CRF. Hormone- Neurotransmitter Interactions - The First Annual Albert Einstein College of Medicine Psychiatric Symposium, New York, NY, October 29 - 30, 1984.
68. Neuropeptides in cerebrospinal fluid: problems and promises. Chairman and participant, American College of Neuropsychopharmacology Panel, San Juan, Puerto Rico, December, 1984.
69. Participant, Panel on Neuropeptides Modulating Dopaminergic Function: New Horizons for the Dopamine Hypothesis of Schizophrenia, American College of Neuropsychopharmacology, San Juan, Puerto Rico, December, 1984.
70. Physiology and pathophysiology of corticotrophin-releasing hormone. Department of Physiology and Psychiatry, University of New Mexico School of Medicine, Albuquerque, New Mexico, January 22, 1985.
71. Participant, Panel on Central and Peripheral Peptides, Winter Neuropeptide Conference, Breckenridge, Colorado, January 24, 1985.
72. Neotensin-dopamine interactions. Institute of Animal Behavior, Rutgers University, Newark, New Jersey, March 19, 1985.
73. Dopamine Hypothesis of Schizophrenia, American College of Neuropsychopharmacology, San Juan, Puerto Rico, December, 1984.
74. The interaction of neotensin with dopaminergic pathways in the central nervous system: basic neurobiology and implications for the pathogenesis and treatment of schizophrenia. The Curt P. Richter Award Lecture, Sixteenth Congress of the International Society of Psychoneuroendocrinology, Kyoto, Japan, April 15, 1985.
75. Discussant, Symposium on Cholecystokinin in Schizophrenia, Twenty-fifth meeting of the New Clinical Drug Evaluation Unit Program, Key Biscayne, Florida, May 2, 1985.
76. Neuropeptides in schizophrenia: preclinical and clinical studies. Participant, Symposium on Biology of Schizophrenia: New Concepts, Society of Biological Psychiatry, Dallas, Texas, May 19, 1985.

77. The neurobiology of neuropeptides. Co-Chairman and participant, Symposium on Anatomy and Behavioral Effects of Brain Peptides, Fifth International Washington Spring Symposium, Neural and Endocrine Peptides and Receptors '85, Washington, DC, May 28-31, 1985.
78. Analysis of the integrity of neuropeptide-containing neural systems in senile dementia of the Alzheimer's type: evidence for degeneration of somatostatinergic and corticotropin-releasing factor-containing neurons. New Investigator Award, 42<sup>nd</sup> Annual Meeting, American Geriatrics Society, New York, NY, July 12, 1985.
79. Recent research in behaviorally active peptides. Grand Rounds, Long Island Jewish Hillside Hospital, Long Island, New York, July 11, 1985.
80. Chairman and participant, Symposium on Neuropeptides and Neurotransmitters in Senile Dementia of the Alzheimer's Type, 13<sup>th</sup> International Congress of Gerontology, New York, NY, July 14, 1985.
81. Neuropeptides and dopamine interactions - preclinical and clinical studies. American Hoechst-Roussel Pharmaceuticals, Somerville, New Jersey, August 2, 1985.
82. Neuropeptides and antipsychotic drugs. Department of Psychiatry, University of Cincinnati School of Medicine, Cincinnati, Ohio, August 20, 1985.
83. Studies on the hypothalamic-pituitary-adrenal axis in depression. Mt. Sinai Medical Center, University of Wisconsin, Milwaukee, Wisconsin, September 5, 1985.
84. Corticotropin-releasing hormone: preclinical and clinical studies. Grand Rounds, Department of Psychiatry, University of Wisconsin, Madison, Wisconsin, September 6, 1985.
85. Chairman and Participant, Symposium on Preclinical and Clinical Aspects of Neuropeptides in Psychiatric Disorders, IVth World Congress of Biological Psychiatry, Philadelphia, PA., September 9, 1985.
86. Participants, Symposium on Biological Markers and Possible Clinical Implications, IVth World Congress of Biological Psychiatry, Philadelphia, PA., September 11, 1985.
87. Panic attacks and agoraphobia; and Sleep disorders. Clinical up-date, North Carolina Division of Mental Health, Southern Pines, North Carolina, September 17, 1985.
88. Preclinical and clinical studies with corticotropin-releasing factor: implications for the etiology and pathogenesis of neuropsychiatric disorders. Visiting Professor, Department of Psychiatry, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, September 27, 1985.
89. Neuropeptides and dopamine interactions. Department of Biochemistry, University of Nice, Nice, France, October 8, 1985.
90. Peptidergic-catecholaminergic interactions in the amygdala, nucleus accumbens and other basal ganglia structures. Invited participant, Neurotransmitter Interactions in the Basal Ganglia, Grenoble, France, October 9 - 11, 1985.

91. Chairman and participant, Symposium on Recent Advances in the Hypothalamic Pituitary-Adrenal Axis in Affective Disorders, World Psychiatric Association Regional Symposium on Affective Disorders, Athens, Greece, October 13 - 17, 1985.
92. Corticotropin-releasing factor: basic and clinical studies. St. Elizabeth's Hospital, National Institute of Mental Health, Washington, DC, November 13, 1985.
93. Update on depression and panic disorders. Inn, Goldsboro, North Carolina, November 18, 1985.
94. Invited participant, International Workshop on Rett Syndrome, Johns Hopkins University and The Kennedy Institute for Handicapped Children, Baltimore, Maryland, November 20 - 21, 1985.
95. Corticotropin-releasing factor: preclinical and clinical investigations. Institute for Psychiatric Research, Indiana University Medical Center, Indianapolis, Indiana, November 26, 1985.
96. Co-chairman and participant, Panel on Problems and Promises of Post-Mortem Brain Tissue Analysis, American College of Neuropsychopharmacology, 24th Annual Meeting, Maui, Hawaii, December 11, 1985.
97. Co-chairman and participant, Panel on Recent Advances in Hypothalamic- Pituitary-Adrenal Physiology and Pathophysiology, American College of Neuropsychopharmacology, 24th Annual Meeting, Maui, Hawaii, December 13, 1985.
98. Preclinical and clinical studies with corticotropin-releasing factor (CRF): implications for the pathogenesis of psychiatric disorders. Rockefeller University Behavioral Biology Seminar, New York, NY, January 30, 1986.
99. Elevated corticotropin-releasing factor-like immunoreactivity in depressed patients. Biological Psychiatry Seminar, Department of Psychiatry, Cleveland Metropolitan General Hospital, Case Western Reserve University, Cleveland, Ohio, February 13, 1986.
100. Antidepressants. Clinical Update for Physicians, Duke University Medical Center, Durham, North Carolina, February 19, 1986.
101. Preclinical and clinical studies with corticotropin-releasing factor: implications for psychiatric disorders. Academic Conference, McLean Hospital, Belmont, Massachusetts, February 21, 1986.
102. Participant, Symposium on Recent Developments in Neuropeptide Research: Implications for Psychosomatic Medicine, American Psychosomatic Society, Baltimore, Maryland, March 20, 1986.
103. Preclinical and clinical studies with corticotropin-releasing factor: implications for the pathogenesis of psychiatric disorders. Department of Physiology, University of Texas Health Sciences Center, Dallas, Texas, May 2, 1986.
104. Somatostatin and behavior: preclinical and clinical studies. International Congress on Somatostatin, Serono Symposium, Washington, DC, May 7, 1986.

105. Peptide-monoamine interaction: basic and clinical studies. Participant, Symposium on Neurotransmitter-Neuroendocrine Relationships, American Psychiatric Association, Washington, DC, May 12, 1986.
106. Neuropeptides in Alzheimer's disease, Abbott Laboratories, Abbott Park, Illinois, May 21, 1986.
107. Dementia update: practical research applications to clinical practice, The Charlotte Area Health Education Center, Charlotte, North Carolina, May 27, 1986.
108. Interactions of neurotensin with brain dopamine systems, Loyola University Medical Center, Department of Pharmacology, Maywood, Illinois, June 17, 1986.
109. The role of corticotropin-releasing factor in psychiatric disorders: preclinical and clinical studies, University of Chicago Pritzker School of Medicine, Department of Pharmacology and Physiology, Chicago, Illinois, June 18, 1986.
110. Chairman and participant, symposium on Modulation of behavior by peptides/hormones, XXX International Congress of Physiological Sciences, Vancouver, B.C., Canada, July 14, 1986.
111. Preclinical and clinical studies with CRF: Implications in the pathogenesis of depressive disorders, Invited participant, Peptidergic Aminergic Actions and Their Interactions, Satellite Symposium of the XXX International Congress of Physiological Sciences, Pullman, Washington, July 22, 1986.
112. Anxiety and depression and Sleep Disorders, Eleventh Annual Conference of North Carolina Academy of Physician Assistants, Wrightsville Beach, North Carolina, August 23, 1986.
113. Corticotropin-releasing factor: evaluation of its role in affective disorders, Grand Rounds, Emory University School of Medicine, Department of Psychiatry, Atlanta, Georgia, September 3, 1986.
114. Recent advances in the diagnosis and pathophysiology of Alzheimer's disease, Symposium on Practical Approaches to the Geriatric Patient, San Antonio, Texas, October 18, 1986.
115. Psychiatric management of the patient with acute myocardial infarction, First Annual Charlotte Symposium on Cardiovascular Diseases - The Brain and the Heart: Clinical Interrelationships, Charlotte, North Carolina, October 29, 1986.
116. CRH: Evidence for its involvement in psychiatric disorders - from preclinical and clinical studies, NIH Conference on the Mechanisms of Physical and Emotional Stress, Bethesda, Maryland, November 6 - 8, 1986.
117. Interactions of neurotensin with CNS dopamine systems: implications for the pharmacotherapy of schizophrenia, In Society for Neuroscience Symposium on Mechanisms of Neuropeptide Actions on Behavior, Washington, DC, November 13, 1986.
118. The involvement of CRF in the pathophysiology of affective disorders. Grand Rounds, State University of New York - Stony Brook, Department of Psychiatry, Stony Brook, New York, November 25, 1986.

119. Neuroleptic drugs, neuropeptides and the mesolimbic dopamine system. In: American College of Neuropsychopharmacology 25th Annual Meeting, Co-chairman and participant in panel on "Recent developments in the regulation of the mesolimbic and mesocortical dopamine systems: basic and clinical implications", Washington, D.C., December 9, 1986.
120. Peptides in schizophrenia. In: American College of Neuropsychopharmacology 25th Annual Meeting Panel on "Biology of schizophrenia", Washington, D.C., December 11, 1986.
121. Chairman and participant, Panel on Recent advances in the neurobiology of corticotropin-releasing factor, Eighth Annual Winter Neuropeptide Conference, Breckenridge, Colorado, January 20, 1987.
122. Banquet address, Neuropeptides in psychiatry: Problems and promises, Eighth Annual Winter Neuropeptide Conference, Breckenridge, Colorado, January 21, 1987.
123. Recent developments in the neurochemistry of Alzheimer's disease: focus on cholinergic and peptidergic systems. First Joseph and Kathleen Bryan Alzheimer's Disease Research Center Conference, Duke University Medical Center, Durham, NC, February 10, 1987.
124. Management of depression. First Joseph and Kathleen Bryan Alzheimer's Disease Research Center Conference, Duke University Medical Center, Durham, NC, February 11, 1987.
125. Anxiety and depression associated with serious illness and disease. North Carolina Academy of Family Physicians Annual Meeting, Research Triangle Park, NC, February 21, 1987.
126. Evidence for hypersecretion of corticotropin-releasing factor (CRF) in depressive disorder. Grand Rounds, Columbia University College of Physicians and Surgeons, Department of Psychiatry, New York, New York, February 27, 1987.
127. Neuropeptide involvement in Alzheimer's disease. Grand Rounds, Cornell Medical Center - New York Hospital, Westchester Division, Department of Psychiatry, White Plains, New York, March 6, 1987.
128. Does hypersecretion of corticotropin-releasing factor produce many of the signs and symptoms of depression? University of California-San Diego, Department of Psychiatry, La Jolla, California, March 9, 1987.
129. Does corticotropin-releasing factor have a role in the pathogenesis of major depression? University of California-San Diego, Department of Neuroscience, La Jolla, California, March 10, 1987.
130. The role of corticotropin-releasing hormone in major depression. Visiting Professor, University of South Florida College of Medicine, Department of Psychiatry, Tampa, Florida, March 20, 1987.
131. Corticotropin-releasing factor and depression. Grand Rounds, Ohio State University, Department of Psychiatry, Columbus, Ohio, April 1, 1987.
132. Preclinical and clinical investigations of corticotropin-releasing factor: assessment of its role in depressive disorders. Symposium on Neuropeptides and Affective Disorders, International Conference on New Directions in Affective Disorders, Jerusalem, Israel, April 7, 1987.

133. Neuropeptides in postmortem human tissue and cerebrospinal fluid: relationship to monoamine systems. New York Academy of Sciences Conference on the Mesocorticolimbic Dopamine System, Miami, Florida, May 5, 1987.
134. Chairman and participant of Symposium, Intelligent Biological Testing in Psychiatry, American Psychiatric Association, 14th Annual Meeting, Chicago, Illinois, May 13, 1987.
135. Abnormal thyroid function in psychiatric patients. Symposium on Psychiatric Uses of Medical Treatments, American Psychiatric Assn., 14th Ann. Meeting, May 13, 1987.
136. Corticotropin-releasing factor and depression. National Institute of Drug Abuse, Baltimore, Maryland, May 21, 1987.
137. The role of corticotropin-releasing factor in depression: preclinical and clinical studies. Grand Rounds, Medical University of South Carolina, Department of Psychiatry, Charleston, South Carolina, May 24, 1987.
138. Behavioral effects of corticotropin-releasing factor. Colloquium on Peptides and Behavior, International Society of Neurochemistry 11th Biennial Meeting / American Society for Neurochemistry 18th Annual Meeting, Caracas, Venezuela, June 5, 1987.
139. The clinical neurobiology of corticotropin-releasing factor. Second World Congress of Neuroscience Satellite Symposium on Peptidergic and Purinergic Neurons, Pecs, Hungary, August 15, 1987.
140. Chairman and participant, Roundtable: Clinical perspectives of neuropeptide research, Second World Congress of Neuroscience, Budapest, Hungary, August 17, 1987.
141. Psychiatric management of the acute myocardial infarction patient. AHEC Conference on the Brain and the Heart, Greensboro, North Carolina, September 9, 1987.
142. Neuroendocrine correlates of mind/body relationships: The role of corticotropin-releasing factor in psychiatric disorders. Grand Rounds, Medical College of Georgia, Department of Psychiatry and Health Behavior, Augusta, Georgia, September 16, 1987.
143. Corticotropin-releasing factor and depression. Eisenhower Army Medical Center, Department of Psychiatry, Augusta, Georgia, September 16, 1987.
144. TRH: preclinical and clinical studies. New York Academy of Sciences Conference on Recent Advances in the Biomedical Significance of Thyrotropin- Releasing Hormone (TRH), Bethesda, Maryland, November 9-11, 1987.
145. Neuropeptides in psychiatric brain disorders. Diseases of the Nervous System Third International High Technology Conference, Columbus, Ohio, November 13, 1987.
146. Studies of neuropeptides in Alzheimer's disease and Huntington's disease. National Conference on Spectrum of Dementing Illnesses, Columbia, South Carolina, November 14, 1987.
147. Neuropeptides. Recent Advances in the Diagnosis and Treatment of Neurological Disorders, New Orleans, Louisiana, November 19, 1987.

148. Recent advances in the biology of Alzheimer's disease: Implications for diagnosis and treatment, Grand Rounds, Highland Hospital, Asheville, North Carolina, December 2, 1987.
149. Preclinical and clinical studies with corticotropin-releasing factor: implications for affective disorders. Chairman and participant, Symposium on Recent Advances in the Psychobiology of Stress, American College of Neuropsychopharmacology, 26th Annual Meeting, San Juan, Puerto Rico, December 9, 1987.
150. Neuropeptides and neuropeptide receptors in post-mortem tissue: fact or artifact? In: Symposium on Receptor Ligand Mismatches, American College of Neuropsychopharmacology, 26th Annual Meeting, San Juan Puerto Rico, December 9, 1987.
151. Sleep disorders. Grand Rounds, William S. Hall Institute, Department of Psychiatry, University of South Carolina School of Medicine, Columbia, South Carolina, January 15, 1988.
152. Chairman, Panel on The physiology and pathophysiology of growth hormone secretion, 21st Winter Conference on Brain Research, Steamboat Springs, Colorado, January 29, 1988.
153. The role of corticotropin-releasing factor in affective disorders. Grand Rounds, East Tennessee State University School of Medicine, Department of Psychiatry, Johnson City, Tennessee, February 6, 1988.
154. Platelet receptor binding studies in psychiatry. Grand Rounds, University of Minnesota School of Medicine, Department of Psychiatry, Minneapolis, Minnesota, February 9, 1988.
155. Preclinical and clinical studies with corticotropin-releasing factor: implications for the pathogenesis of affective disorders. Grand Rounds, University of Arizona School of Medicine, Department of Pharmacology, Tucson, Arizona, February 18, 1988.
156. Neuropeptides: relevance to psychiatry. University of Wisconsin, Department of Psychiatry, Mt. Sinai Hospital, Milwaukee, Wisconsin, February 25, 1988.
157. "Psychobiology of Adult Depression" and "Neurobiology of Alzheimer's Disease", Wisconsin Psychiatric Association, Annual Scientific Meeting, Madison, Wisconsin, February 26-28, 1988.
158. Recent advances in Alzheimer's disease research. Pinellas County Psychiatric Society, Clearwater, Florida, February 29, 1988.
159. Sleep disorders. Grand Rounds, Department of Medicine, University of South Carolina School of Medicine, Richland Hospital, Columbia, South Carolina, March 11, 1988.
160. The role of corticotropin-releasing factor (CRF) in affective disorders. Nathan Kline Institute, Rockland State Hospital, Orangeburg, New York, April 4, 1988.
161. Invited participant, Genetic Approaches to Schizophrenia, Cold Springs Harbor Laboratory-Banbury Center, Cold Springs Harbor, New York, April 17-20, 1988.
162. The role of corticotropin-releasing factor in depression and Alzheimer's disease. GREC center, UCLA, VA-Sepulveda, Los Angeles, California, May 3, 1988.

163. Stress and the neuropeptide cascade. Society of Biological Psychiatry, 43rd Annual Meeting, Montreal, Canada, May 6, 1988.
164. Chairman and participant, Symposium on Biomedical advances in Alzheimer's disease, 141st Ann. Meeting Amer. Psychiat. Assn., Montreal, Canada, May 8, 1988.
165. The Clinical Biology of CRF. Symposium on Stress, Cortisol, Symptoms and Course in Depression, 141st Ann. Meeting Amer. Psychiat. Assn., Montreal, Canada, May 9, 1988.
166. Chairman and participant, Symposium on Neuropeptides in Psychiatric Disorders, 141st Ann. Meeting Amer. Psychiat. Assn., Montreal, Canada, May 11, 1988.
167. CRF: A Role in the Pathophysiology of Anxiety. Symposium on Recent Clinical/Basic Research in Panic Disorders, 141st Ann. Meeting Amer. Psychiat. Assn., Montreal, Canada, May 12, 1988.
168. The role of corticotropin-releasing factor in depression. Grand Rounds, Department of Psychiatry, East Carolina University School of Medicine, Greenville, North Carolina, May 26, 1988.
169. Corticotropin-releasing factor and affective disorders. Colloquium on Biobehavioral Sciences, Department of Psychiatry, University of California-Los Angeles, Los Angeles, California, June 13, 1988.
170. Corticotropin-releasing factor and depression: preclinical and clinical studies. Grand Rounds, Department of Psychiatry, Harbor-UCLA Medical Center, Torrance, California, June 13, 1988.
171. Chairman and participant, Symposium on Neurochemistry in Psychiatry and Neurology, Present and Future Developments. Use of platelet receptor binding studies in neuropsychiatry. Amer. Assn. Clin. Chem. Ann. Meeting, July 26, 1988.
172. Antidepressant overdose: its epidemiology, pathogenesis and treatment. Grand Rounds, Department of Psychiatry and Behavioral Sciences, Leonard M. Miller School of Medicine, University of Miami, Miami, Florida, August 5, 1988.
173. The role of corticotropin-releasing factor (CRF) in the pathogenesis of depression. Symposium on Biological Markers of Affective Disorders -- Impact of Basic Neuroendocrine and Sleep Research. 16th Congress of Collegium Internationale Neuro-Psychopharmacologicum, August 18, 1988.
174. Co-chairman and participant, Symposium on Clinical Aspects of Neuropeptide Research. 16th Congress of Collegium Internationale Neuro-Psychopharmacologicum, August 18, 1988.
175. The role of corticotropin-releasing factor in depression. Grand Rounds, Department of Psychiatry, Mercer University School of Medicine, Macon, Georgia, August 24, 1988.
176. Basic and clinical studies with corticotropin-releasing factor. Department of Basic Science, Mercer University School of Medicine, Macon, Georgia, August 25, 1988.
177. The role of corticotropin-releasing factor in affective disorders. Maryland Psychiatric Research Institute, Baltimore, Maryland, August 29, 1988.

178. The role of corticotropin-releasing factor in mood disorders. Grand Rounds, Department of Psychiatry, New York University School of Medicine, New York, New York, September 8, 1988.
179. Age-related changes in neuroendocrine stress response: focus on the pituitary-adrenal axis. Seventh Ann. Symposium on Geriatrics and Gerontology: Endocrine Function and Aging, St. Louis, Missouri, September 15, 1988.
180. Platelet receptor binding studies in psychiatry. Research Seminar, Department of Psychiatry, University of Iowa College of Medicine, Iowa City, Iowa, September 26, 1988.
181. The role of corticotropin-releasing factor in depression. Grand Rounds, Department of Psychiatry, University of Iowa College of Medicine, Iowa City, Iowa, September 27, 1988.
182. The differential diagnosis and treatment of anxiety disorders. Grand Rounds, Department of Psychiatry, University of Illinois School of Medicine, Illinois State Psychiatric Institute, Chicago, Illinois, September 29, 1988.
183. Invited Discussant, McLean Hospital Symposium on Benzodiazepines, Boston, Massachusetts, September 29-October 1, 1988.
184. The role of corticotropin-releasing factor in depressive disorders. Grand Rounds, Department of Psychiatry, University of Rochester, College of Medicine and Dentistry, Rochester, New York, October 5, 1988.
185. Interactions of neuropeptides with brain dopamine systems. Neuroscience Seminar, Department of Physiology, McGill University, Montreal, Quebec, Canada, October 6, 1988.
186. Recent advances in the psychopharmacologic treatment of affective disorders. Southeastern Symposium in Clinical Psychiatry, Atlanta, Georgia, October 15, 1988.
187. Recent advances in the biology of affective disorders: the role of corticotropin-releasing factor in depression. Grand Rounds, Department of Psychiatry, Albany Medical College, Albany, New York, October 19, 1988.
188. Clinical significance of psychoneuroendocrinology in psychiatry. Symposium on: Interrelationship between Depression, The Immune System and the Endocrine System. Charleston, South Carolina, October 22, 1988.
189. Recent advances in the biology and treatment of depression. Mental Health Association of Alabama Annual Scientific Symposium. Birmingham, Alabama, October 27, 1988.
190. Is corticotropin-releasing factor the elusive black bile that causes depression? Grand Rounds, Department of Psychiatry, University of Alabama School of Medicine, Birmingham, Alabama, October 28, 1988.
191. The role of corticotropin-releasing factor in the pathogenesis of depression. Grand Rounds, Department of Psychiatry, University of Washington School of Medicine, Seattle, Washington, November 3, 1988.

192. Corticotropin-releasing factor and the pathogenesis of depression. Grand Rounds, Department of Psychiatry, The Johns Hopkins University School of Medicine, Baltimore, Maryland, November 7, 1988.
193. Corticotropin-releasing factor and depression. Department of Pharmacology, University of Florida College of Medicine, Gainesville, Florida, November 9, 1988.
194. The synaptic chemistry of schizophrenia. Symposium on the Neurobiology of Schizophrenia. Society for Neuroscience, Toronto, Canada, November 13, 1988.
195. The role of neuropeptides in psychiatry. Grand Rounds, Shepperd and Enoch Pratt Hospital, Baltimore, Maryland, November 24, 1988.
196. An overview of basic neuroendocrinology. Fourth Annual Meeting on the Biology of Sleep, Palm Springs, California, November 30-December 1, 1988.
197. Stress, corticotropin-releasing factor (CRF) and the locus coeruleus. Panel on Neuroendocrine and Immune Relationships. 27th Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico, December 13, 1988.
198. Corticotropin-releasing factor and affective disorder. Grand Rounds, Department of Psychiatry, Washington University School of Medicine, St. Louis, Missouri, January 10, 1989.
199. Neurotensin, an endogenous peptide and schizophrenia. Department of Psychiatry, Washington University School of Medicine, St. Louis, Missouri, January 11, 1989.
200. Differential diagnosis and treatment of anxiety disorders. Grand Rounds, VA Medical Center, Columbia, South Carolina, January 12, 1989.
201. Recent advances in the treatment of affective disorders. Grand Rounds, Dorothea Dix Hospital, Raleigh, North Carolina, January 19, 1989.
202. Recent advances in the neurobiology of affective disorders. Grand Rounds, Department of Psychiatry, University of North Carolina School of Medicine, Chapel Hill, North Carolina, January 19, 1989.
203. Neurotensin-dopamine interactions: an update. Research Seminar, Scripps Institute and Clinic, La Jolla, California, January 24, 1989.
204. Workshop participant, Pharmacologic Treatment of Personality Disorders, American College of Psychiatrists, Monterey, California, February 2, 1989.
205. Recent advances in the treatment of affective disorders. Grand Rounds, Department of Psychiatry, University of South Florida School of Medicine, Tampa, Florida, February 10, 1989.
206. Participant, McArthur Foundation Workshop on Stress and Depression, Scripps Clinic and Research Foundation, La Jolla, California, February 20-22, 1989.
207. Recent advances in the treatment of affective disorders. Richmond Psychiatric Society, Richmond, Virginia, March 2, 1989.

208. The role of corticotropin-releasing factor in the pathogenesis of depression. Grand Rounds, Department of Psychiatry, Medical College of Virginia, Richmond, Virginia, March 3, 1989.
209. Corticotropin-releasing factor and affective disorder. Grand Rounds, Department of Psychiatry, State University of New York at Buffalo, School of Medicine, Buffalo, New York, March 17, 1989.
210. The role of corticotropin-releasing factor in the pathogenesis of depression. Grand Rounds, Department of Psychiatry, New York Hospital - Cornell Medical Center, Westchester Division, White Plains, New York, March 24, 1989.
211. Neurotensin, dopamine and schizophrenia. Grand Rounds, Allen Memorial Hospital - Royal Victoria Hospital, Montreal, Quebec, Canada, March 30, 1989.
212. Corticotropin-releasing hormone: basic and clinical studies. Center for Behavioral Biology, Concordia University, Montreal, Quebec, Canada, March 30, 1989.
213. The role of corticotropin-releasing factor in the pathogenesis of depression. Grand Rounds, Montreal General Hospital, Montreal, Quebec, Canada, March 31, 1989.
214. Neuropeptides in schizophrenia. International Congress on Schizophrenia Research. San Diego, California, April 4, 1989.
215. Recent advances in the biological treatment of depression. Research Symposium, Alliance for the Mentally Ill of Illinois, Springfield, Illinois, April 7, 1989.
216. The role of corticotropin-releasing factor in the pathogenesis of depression. Grand Rounds, Department of Psychiatry, Baylor College of Medicine, Houston, Texas, April 12, 1989.
217. The role of corticotropin-releasing factor in depression. Visiting Professor, Department of Psychiatry, University of Pennsylvania, Philadelphia, Pennsylvania, April 13, 1989.
218. Laboratory assessment of depression: a 1990's perspective. Northern California Psychiatric Society, Asilomar, California, April 16, 1989.
219. Use of hypothalamic peptides in diagnosis and treatment of psychiatric disorders. Serono Laboratories, Norwell, Massachusetts, April 17, 1989.
220. Comorbidity of stress and depression: potential role of corticotropin-releasing factor as a mediator of both anxiety and depression. Seventh Annual Missouri Conference on Depression: Comorbidity, St. Louis, Missouri, April 19, 1989.
221. Impact of peptide research in psychiatry. Symposium on Peptides as Targets for Drug Research, Mid-Atlantic Pharmacology Society, Piscataway, New Jersey, April 20, 1989.
222. Chairman and participant, Symposium on Neurochemistry of Neurological and Psychiatric Disorders, International Society of Neurochemistry, Algarve, Portugal, April 27, 1989.
223. Differential diagnosis of anxiety: implications for drug treatment. Indiana Council of Mental Health, Evansville, Indiana, May 3, 1989.

224. Participant, Symposium on New Horizons in Psychiatric Research. New horizons for depression associated with medical illness. American Psychiatric Association 142nd Annual Meeting, San Francisco, California, May 9, 1989.
225. The role of corticotropin-releasing factor in the pathogenesis of depression. Department of Pharmacology, Medical College of Pennsylvania, Philadelphia, Pennsylvania, May 15, 1989.
226. Alteration of Neuropeptides in Psychiatric and Neurological Disorders. The Kennedy Institute, John Hopkins University, Baltimore, Maryland, May 19, 1989.
227. Basic studies relevant to the Neurobiology of Manic-Depressive Illness. Update on Manic-Depressive Illness, Duke University Medical Center, Durham North Carolina, May 19, 1989.
228. Clinical Advances in the Neurochemistry of Manic-Depressive Illness. Update on Manic-Depressive Illness, Duke University Medical Center, Durham, North Carolina, May 20, 1989.
229. Platelet receptor binding studies in psychiatry. Grand Rounds, University of Michigan, Department of Psychiatry, Ann Arbor, Michigan, May 24, 1989.
230. The role of corticotropin-releasing factor (CRF) in anxiety and affective disorders: preclinical and clinical studies. University of Michigan, Department of Psychiatry, Ann Arbor, Michigan, May 24, 1989.
231. Basic and clinical studies with corticotropin-releasing factor. University of Virginia, Biodynamics Institute, Charlottesville, Virginia, May 26, 1989.
232. Corticotropin-releasing factor: preclinical and clinical studies. Grass Foundation Traveling Scientist, Society for Neuroscience, Shreveport, Louisiana, May 30, 1989.
233. Neurotensin, dopamine, schizophrenia and sigma receptors. Sterling Drug Company, Rensselaer, New York, June 5, 1989.
234. Psychopharmacological management of treatment-resistant depression. Northbrooke Hospital, Brown Deer, Wisconsin, August 9, 1989.
235. Stress, corticotropin-releasing factor and the pathogenesis of psychiatric disorders. Department of Pharmacology, Washington State University, Pullman, Washington, August 16, 1989.
236. Psychopharmacologic treatment of depression. 19th Brazilian Congress of Psychiatry, Sao Paulo, Brazil, September 7, 1989.
237. Chronic stress and the psychopathology of affected disorders. Symposium on Stress, Biological Rhythms and Psychiatric Disorders. Amsterdam, The Netherlands, September 14, 1989.
238. Neurotensin, dopamine and schizophrenia: a ten year sojourn Grand Rounds, Duke University Medical Center, Department of Psychiatry, Durham, North Carolina, September 21, 1989.
239. Central nervous system effects of corticotropin-releasing factor. Department of Psychiatry, University of Mainz, Mainz, West Germany, September 28, 1989.

240. Neurochemical and behavioral effects of CRH administration in animals and humans. Third Freiburg Psychiatric Symposium on basic and clinical strategies in Neuroendocrine Research, Titisee, Federal Republic of Germany, September 29, 1989.
241. Corticotropin-releasing factor and depression. Symposium on the Neurobiology of Stress. British Association of Psychopharmacology. The Royal Society, London, England, October 20, 1989.
242. Current approaches to the biology and treatment of schizophrenia: focus on neuropeptides. Organon International, Oss, The Netherlands, October 24, 1989.
243. Biochemistry of depression. Fourth Annual Neurological Disorders Conference. Communitech Market Intelligence. Phoenix, Arizona, October 30, 1989.
244. Chairman and participant symposium: Recent advances in the biology of affective disorders. Society for Neuroscience 19th Annual Meeting, Phoenix, Arizona, November 2, 1989.
245. Biological Markers in depression. Symposium on Concepts in Depression for the 90's. Orlando, Florida November 4, 1989.
246. The neurobiology of normal aging and dementia. Dorothea Dix Hospital, Raleigh, North Carolina, November 8, 1989.
247. Recent advances in the neurobiology of Alzheimer's disease: implications for treatment. Sixth Annual Alzheimer's Disease Symposium, Knoxville, Tennessee, November 9, 1989.
248. The role of corticotropin-releasing factor in the pathogenesis of anxiety and depression. G.D. Searle and Co., Skokie, Illinois, November 28, 1989.
249. The role of corticotropin-releasing factor in anxiety and depressive disorders. Grand Rounds, Department of Mental Health Sciences, Hahnemann University, Philadelphia, Pennsylvania, November 30, 1989.
250. Invited participant, McArthur Foundation meeting on "Patterns of neuroendocrine response to challenge." Mt. Sinai School of Medicine, New York, New York, December 1, 1989.
251. Differential diagnosis and management of patients with dementia. North Carolina Academy of Family Physicians, Raleigh, North Carolina, December 2, 1989.
252. Chairman and participant, The adrenal gland in clinical psychiatry, 28th Annual Meeting of the American College of Neuropsychopharmacology, Maui, Hawaii, December 12, 1989.
253. Participant, panel on Afferent Regulation of Midbrain dopamine neurons, 28th Annual Meeting of the American College of Neuropsychopharmacology, Maui, Hawaii, December 13, 1989.
254. Corticotropin-releasing factor: a neuropeptide and its role in depression. Department of Pathology, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, January 10, 1990.

255. The hypothalamic-pituitary-adrenal axis and its role in affective disorders. Grand Rounds, Department of Psychiatry, University of Kansas-Wichita, School of Medicine, Wichita, Kansas, February 1, 1990.
256. Chairman and participant, panel on Neuropeptides and Psychiatry 1990, Neuropeptides in schizophrenia, Eleventh Annual Winter Neuropeptide Conference, Breckenridge, Colorado, February 9, 1990.
257. Neurotransmitter regulation of CRF secretion, Eleventh Annual Winter Neuropeptide Conference, Breckenridge, Colorado, February 9, 1990.
258. The role of corticotropin-releasing factor in stress and depression. Massachusetts Institute of Technology, Cambridge, Massachusetts, February 12, 1990.
259. The adrenal and thyroid axes in psychiatric disorders: an overview. The American College of Psychiatrists, Palm Springs, California, February 17, 1990.
260. Corticotropin-releasing factor, stress and depression. Psychopharmacology lecture series, Massachusetts Mental Health Center, Harvard Medical School, Boston, Massachusetts, March 2, 1990.
261. Use and abuse of benzodiazepines: What are the facts? Sixteenth Annual Symposium on Psychopharmacology, University of Louisville, Louisville, Kentucky, March 15, 1990.
262. Neuropeptides in affective disorders. Grand Rounds. St. Johns Mercy Hospital, St. Louis, Missouri, March 29, 1990.
263. Corticotropin-releasing factor in depression. Academic Grand Rounds. Department of Psychiatry, Southern Illinois University School of Medicine, Springfield, Illinois, April 3, 1990.
264. Neuropeptides, antipsychotic drugs and schizophrenia. Visiting Professor of Neuroscience and Psychiatry, John Hopkins University School of Medicine, Baltimore, Maryland, April 5, 1990.
265. Pharmacological Management of treatment-resistant depression. Regional APA symposium, San Juan, Puerto Rico, April 7, 1990.
266. New neuroendocrine findings in affective disorders. Fourth Annual Mood Disorders Symposium. John Hopkins University School of Medicine, Baltimore, Maryland, April 11, 1990.
267. The diagnosis and treatment of anxiety. Missouri Institute of Psychiatry 22nd Annual Visiting Speaker Series, St. Louis, Missouri, April 20, 1990.
268. Neurobiology of affective disorders. Advances in Neurobiology and Diagnosis and Management of Psychiatric Disorders: An update. Sinai Hospital of Baltimore, Baltimore, Maryland, April 28, 1990.
269. Evidence for a role for corticotropin-releasing factor in the pathogenesis of anxiety disorders and in the actions of triazolobenzodiazepines. Panic and Anxiety: A Decade of Progress. Geneva, Switzerland, June 22, 1990.

270. Distinguished lecturer in Psychiatry, The Neurobiology of Anxiety, University of Tennessee Medical Center at Knoxville, Department of Medicine Grand Rounds, July 17, 1990.
271. Invited participant. Research in the 90's, National Alliance for the Mentally Ill, Tenth Annual Meeting, July 21, 1990.
272. Pituitary-adrenal hyperactivity in depression: implications for the development of novel treatments. Grand Rounds, Fair Oaks Hospital, Summit, New Jersey, July 25, 1990.
273. Controversies concerning the chronic use of benzodiazepines, Grand Rounds, Louisiana State University School of Medicine, Department of Psychiatry, New Orleans, Louisiana, July 26, 1990.
274. Co-chairman and participant, Symposium on Neuropeptides, Corticotropin-releasing hormone, mood and behavior: basic and clinical studies. XXI Int. Cong. Soc. Psychoneuroendocrinology, Buffalo, New York, August 23, 1990.
275. Depressive disease and neuroendocrine findings, Grand Rounds, University of Arkansas, Department of Psychiatry, Little Rock, Arkansas, September 21, 1990.
276. Anxiety disorders. American Suicide Foundation, Eastern Division, New York, New York, October 11, 1990.
277. Biological markers of mental disease: a special focus on CRF. Brain, Behavior and Biology: The Interface, Minnesota Psychiatric Society, October 12, 1990.
278. Recent advances in neurobiology and their application to diagnosis and treatment of affective disorders. North Carolina Psychiatric Ass'n Annual Meeting, Asheville, North Carolina, October, 26, 1990.
279. Augmentation regimens. The Changing Horizon in the Treatment of Depression and Related Disorders, Chantilly, Virginia, November 10, 1990.
280. The CRF theory of depression, Grand Rounds, University of West Virginia School of Medicine, Department of Psychiatry, Morgantown, West Virginia, November 14, 1990.
281. Interactions of neuropeptides and brain dopamine systems. University of West Virginia, Department of Pharmacology, Morgantown, West Virginia, November 14, 1990.
282. Serotonergic mechanisms in mood disorders. The Challenge of Major Depression. Washington, D.C., November 17, 1990.
283. The Role of Corticotropin-releasing factor (CRF) in the pathophysiology of affective disorder: preclinical and clinical studies. Beverly lecture. Clarke Institute of Psychiatry, University of Toronto, Toronto, Canada. November 28, 1990.
284. The psychobiologic workup of the depressed older adult: Depression in later life: new diagnostic and treatment findings. Duke University Medical Center, December 1, 1990.
285. New findings on the biological basis of stress. Mind and Disease: an integrative approach. Fairfax Hospital, Fairfax, Virginia, December 4, 1990.

286. Neuropeptide alterations in major depression: state or trait markers? Panel on The Clinical Course of Depression: can State Versus Trait Variables be Untangled? 29th Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico, December 11, 1990.
287. Co-chairman and participant, Panel on Meeting the Future. New vistas in neuropeptide research in neuropsychiatry. 29th Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico, December 12, 1990.
288. Co-chairman and participant, Panel on Advances in Geriatric Depression: Platelet measures of serotonergic function in depressed patients. 29th Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico, December 13, 1990.
289. Platelet receptor binding in depression, Grand Rounds, Department of Psychiatry, East Carolina University School of Medicine, Greenville, North Carolina, January 3, 1991.
290. The hypothalamic-pituitary-adrenal axis and depression: clinical and preclinical studies. Grand Rounds, Department of Psychiatry, Emory University School of Medicine, Atlanta, Georgia, January 8, 1991.
291. Side effects of anti-manic medications. Summit Conference on the Treatment of Bipolar Disorder. Snowmass Village Colorado, January 26, 1991.
292. Participant, Specialized Panel on "The Neurobiology of Stress and Anxiety Disorders: New Evidence for an Interaction between Corticotropin-Releasing Factor and Norepinephrine in the Central Nervous System. 24th Annual Winter Conference on Brain Research, Vail, Colorado, January 28, 1991.
293. Invited participant, Sixth Meeting of the International Study Group on the Pharmacology of Memory Disorders Associated with Aging, Zurich, Switzerland, February 15-17, 1991.
294. The neurobiologic basis of anxiety disorders. Update on Anxiety Disorders for the Primary Care Physician. University of North Carolina School of Medicine, Chapel Hill, North Carolina, March 1, 1991.
295. Psychopharmacology for the elderly patient. Polypharmacy in the Elderly. VA Symposium, Durham, North Carolina, March 6, 1991.
296. How to prepare a research grant. Panel: Meet the Investigators. Association for Academic Psychiatry, Tampa, Florida, March 9, 1991.
297. Management of treatment-resistant depression. Alberta Psychiatric Associates, Banff, Alberta, Canada, March 16, 1991.
298. Corticotropin-releasing factor and depression. Howard Rome lecturer, Grand Rounds, Mayo Clinic, Department of Psychiatry, Rochester, Minnesota, March 26, 1991.
299. The role of corticotropin-releasing factor in depression. Grand Rounds, Department of Psychiatry, Chicago Medical School, North Chicago, Illinois, March 28, 1991.

300. CRF as a probe in psychiatry. Advances in Psychopharmacology and Behavioral Neurobiology, Massachusetts General Hospital, Boston, Massachusetts, March 29, 1991.
301. Use of anticonvulsants in the treatment of manic-depressive illness. Grand Rounds, St. Vincent's Hospital, Harrison, New York, April 4, 1991.
302. The role of corticotropin-releasing factor in depression. DuPont Merck Pharmaceuticals, Wilmington, Delaware, April 8, 1991.
303. Corticotropin-releasing factor and depression. Grand Rounds, Department of Psychiatry, University of California - San Francisco, San Francisco, California, April 10, 1991.
304. Keynote address, Southern Association for Research in Psychiatry, "How I came to do what I am doing," Tampa, Florida, April 26, 1991.
305. Managing the depressive component in bipolar disorder. Practical Clinical Guidelines for the Management of Bipolar Disorder, Scottsdale, Arizona, April 27, 1991.
306. Problems in clinical practice with bipolar disorder. A paradigm for the treatment of bipolar disorder. American Psychiatric Association, New Orleans, Louisiana, May 12, 1991.
307. The role of corticotropin-releasing factor in the pathophysiology of affective and anxiety disorders. Grand Rounds, Department of Psychiatry, Mt. Sinai School of Medicine, New York, New York, May 21, 1991.
308. Neuroendocrine alterations in depression. The Donald H. Nelson Lecture. University of Missouri-Columbia, Columbia, Missouri, May 22, 1991.
309. Is corticotropin-releasing factor (CRF) the black bile of melancholia? The 21st Roy R. Grinker, Sr. Visiting Professor Lecture. Department of Psychiatry, Michael Reese Hospital, Chicago, Illinois, May 28, 1991.
310. Recent advances in the treatment of bipolar disorders. Grand Rounds, Department of Psychiatry, Michigan State University, E. Lansing, Michigan, August 14, 1991.
311. Advances in the diagnosis and treatment of bipolar disorder. Grand Rounds, Department of Psychiatry, Tulane University School of Medicine, New Orleans, Louisiana, August 30, 1991.
312. The role for corticotropin-releasing factor in the pathogenesis of depression. Grand Rounds, Department of Psychiatry, Cornell University Medical College, Payne-Whitney Clinic, New York, New York, September 4, 1991.
313. Recent advances in the neurobiology of Alzheimer's disease. Grand Rounds, Department of Neurology, Johns Hopkins University School of Medicine, Baltimore, Maryland, September 12, 1991.
314. Depression in medical illness vs primary depression: biological considerations. NIMH Research Workshop on Comorbidity of Medical and Mental Illnesses. Chevy Chase, Maryland, September 25, 1991.

315. Neuropeptide alterations in Alzheimer's disease: beyond neuroendocrinology. National Institute on Aging workshop on "Neuroendocrinology and Aging: Perspectives and prospectives". Airlie, Virginia, October 10, 1991.
316. Management of treatment-resistant depression. Symposium on management of depression. The North Carolina Psychiatric Association Annual Meeting, Atlantic Beach, North Carolina, October 19, 1991.
317. The role of corticotropin-releasing factor in the pathogenesis of depression: laboratory and clinical investigation. Neurobiology of Affective Disorders, Department of Psychiatry, Yale University School of Medicine, New Haven, Connecticut, October 26, 1991.
318. The biology of depression. New Vistas in the diagnosis and treatment of depression. Atlanta, Georgia, November 16, 1991.
319. Management of treatment-resistant depression. U.S. Psychiatric Congress. New York, New York, November 22, 1991.
320. Diagnosis of bipolar disorder. U.S. Psychiatric Congress, New York, New York, November 23, 1991.
321. The role of corticotropin-releasing factor in depression. Grand Rounds, Department of Psychiatry, Wright State University School of Medicine, Dayton, Ohio, November 26, 1991.
322. The effects of antipsychotic drugs on regional CNS concentrations of neuropeptides and neuropeptides mRNA levels. In: Role of neuropeptides and receptor-coupled signal transduction pathways in psychotropic drug action and stress. Proc. 30th Annual Meeting of the Amer. Coll. of Neuropsychopharmacology, San Juan, Puerto Rico, December 10, 1991.
323. Chairman and participant, The Thyroid Axis, The Brain and Psychiatric Disorders. American College of Neuropsychopharmacology. 30th Annual Meeting, San Juan Puerto Rico, December 13, 1991.
324. Brain imaging and neurochemical studies in Parkinson's disease and major depression: focus on magnetic resonance imaging and neuropeptide alterations. Psychobiology of Parkinson's Disease Satellite Meeting, American College of Neuropsychopharmacology 30th Annual Meeting, San Juan, Puerto Rico, December 14, 1991.
325. The role of corticotropin-releasing factor in the pathophysiology of depression: preclinical and clinical studies. Grand Rounds, Department of Psychiatry, University of Medicine and Dentistry of New Jersey, Newark, New Jersey, December 18, 1991.
326. The psychoneuroendocrinology of depression. Grand Rounds, Department of Psychiatry, University of Texas School of Medicine at Houston, Houston, Texas, January 15, 1992.
327. Diagnosis and treatment of bipolar disorder. Western Pennsylvania Psychiatric Association, Pittsburgh, Pennsylvania, January 20, 1992.
328. Diagnosis and treatment of manic depressive illness. Grand Rounds, Department of Psychiatry, Henry Ford Hospital, Detroit, Michigan, January 23, 1992.

329. Management of treatment-resistant depression. Grand Rounds, McLean Hospital, Harvard Medical School, Belmont, Massachusetts, January 24, 1992.
330. Chairman and participant, Symposium on serotonin and its relation to psychiatric diseases. San Francisco, California, February 11, 1992.
331. Co-Chairman and participant, Bipolar Disorder: current progress and future directions in diagnosis and management. Snowbird, Utah, February 17-19, 1992.
332. Neurotensin-dopamine interactions: neurochemical, neuropharmacological and behavioral studies. Department of Anatomy and Cell Biology, Emory University School of Medicine, Atlanta, Georgia, February 26, 1992.
333. The role of corticotropin-releasing factor in the pathophysiology of affective disorders: laboratory and clinical studies. CIBA Foundation Symposium on Corticotropin-releasing Factor. London, England, March 10-12, 1992.
334. Non-dopaminergic mechanisms of antipsychotic drug action. Symposium on Antipsychotic Drugs, International Academy of Biomedical Research, Monte Carlo, Monaco. March 16-18, 1992.
335. Chairman and participant, Symposium: Innovations in the treatment of depression: the biology of depression. Atlanta, Georgia, March 21, 1992.
336. The hypothalamic-pituitary-adrenal axis in depression: an update. Research Seminar, Department of Psychiatry, University of Iowa College of Medicine, Iowa City, Iowa, March 23, 1992.
337. Management of treatment-resistant depression. Grand Rounds, Department of Psychiatry, University of Iowa College of Medicine, Iowa City, Iowa, March 24, 1992.
338. Diagnosis and treatment of anxiety disorders. Grand Rounds, Department of Psychiatry, Baptist Hospital, Nashville, Tennessee, March 30, 1992.
339. Neuroendocrine and receptor mechanisms in anxiety and depression: clinical implications. Grand Rounds, Department of Psychiatry, Vanderbilt University, Nashville, Tennessee, March 31, 1992.
340. The role of corticotropin-releasing factor in the pathogenesis of major depression: preclinical and clinical studies. Visiting Scholar Program, Department of Psychiatry, University of Vermont, Burlington, VT, April 10, 1992.
341. Neurochemical hypotheses for subtyping of schizophrenia. In: Novel antipsychotic agents: the search for safe and effective first-line therapy. American Psychiatric Association 145th Annual Meeting, Washington, DC, May 2, 1992.
342. The biology of bipolar disorder. In: Bipolar Disorder: current progress and future directions in diagnosis and management. American Psychiatric Association 145th Annual meeting, Washington, DC, May 3, 1992.

343. Differentiating organic/medical factors in mood disorders. Symposium on research advances in psychiatry: an update for the clinician. American Psychiatric Association 145th Annual meeting, Washington, DC, May 4, 1992.
344. Chairman and participant, Symposium on Serotonin and psychiatric disorders: New Vistas. The Serotonin Uptake Site. American Psychiatric Association 145th Annual meeting, Washington, DC, May 5, 1992.
345. The role of corticotropin-releasing factor in the pathophysiology of major depression. Grand Rounds, Department of Psychiatry, University of Louisville, Louisville, Kentucky, April 22, 1992.
346. The role of neuropeptides in depression. Growth factors, peptides and receptors '92, XII Washington International Spring Symposium, Washington, DC, June 2, 1992.
347. The role of neuropeptides in the pathophysiology of affective disorders. Plenary lecture, XVIII Collegicum Internationale Neuro-Psychopharmacologicum, Nice, France, July 2, 1992.
348. Chairman and participant, Symposium on Biology of Neuropeptides. Somatostatin: a neuropeptide system pathologically altered in Alzheimer's disease and depression. XVIII Collegicum Internationale Neuro-Psychopharmacologicum, Nice, France, June 30, 1992.
349. Chairman and participant, Symposium on Neurobiology of Serotonin. The presynaptic serotonin uptake site in depression. XVIII Collegicum Internationale Neuro-Psychopharmacologicum, Nice, France, July 1, 1992.
350. CRF and depression, Symposium on Neuropeptides in Stress, Anxiety and Depression: Basic and Clinical Aspects. Brit. Assn. Psychopharmacology/European Behavioral Pharmacol. Society Joint meeting, Cambridge, England, August 7, 1992.
351. CRF and depression. Symposium on neuropeptides in stress, anxiety and depression: basic and clinical aspects. Brit. Assn. Psychopharmacology/European Behavioral Pharmacol. Society Joint Meeting, Cambridge, England, August 7, 1992.
352. The role of CRF in depression. XXIII Annual Meeting of the Int. Soc. Psychoneuroendocrinology, Madison, Wisconsin, August 17, 1992.
353. The neurobiology of anxiety. Grand Rounds, Department of Psychiatry, Walter Reed Army Hospital, Washington, DC, September 3, 1992.
354. Invited participant, NIMH workshop, Candidate gene approaches to bipolar disorder. Peptide and neuroendocrine candidates. Rockville, Maryland, September 8, 1992.
355. Invited participant, NIMH Research Workshop, Assessment of Psychopathology in Physical Illness. Depression in pancreatic cancer. Chevy Chase, Maryland, September 22, 1992.
356. Co-chairman and participant, Bipolar Disorder: Current progress and future directions in diagnosis and management, "The Biology of Bipolar Illness". Amelia Island, Florida, September 27-30, 1992.

357. The role of serotonergic systems in the pathophysiology of depression. Grand Rounds, Department of Psychiatry, Medical College of Wisconsin, Milwaukee, Wisconsin, October 14, 1992.
358. Serotonergic antagonists as antipsychotics. European College of Neuropsychopharmacology, Marbella, Spain, October 18-21, 1992.
359. Diagnosis and treatment of bipolar disorder. Grand Rounds, Department of Psychiatry, Louisiana State University School of Medicine, Shreveport, Louisiana, November 6, 1992.
360. Recent advances in the treatment of bipolar disorder. Grand Rounds, Department of Psychiatry, Eastern Virginia Medical School, Norfolk, Virginia, November 12, 1992.
361. Co-chairman and participant, Panel on biological predictors of antidepressant drug response. 31st Ann meeting of the Amer. College of Neuropsychopharmacology. San Juan, Puerto Rico, December 18, 1992.
362. Clinical case conference co-chair, Panic disorder: pharmacologic and psychotherapeutic strategies. American College of Psychiatrists Annual Meeting, Naples, Florida, February 19, 1993.
363. Depression in the medically ill: diagnostic, biological and treatment considerations. UCLA Colloquium in Biobehavioral Sciences, Los Angeles, California, March 15, 1993.
364. Diagnosis and treatment of depression in the medically ill. Grand Rounds, Department of Psychiatry, Medical University of South Carolina, Charleston, South Carolina, March 23, 1993.
365. Biology and treatment of bipolar disorder. Grand Rounds, Department of Psychiatry, University of Alabama School of Medicine, Birmingham, Alabama, April 6, 1993.
366. Diagnosis and treatment of bipolar disorder. Grand Rounds, Department of Psychiatry, University of Kentucky School of Medicine, Lexington, Kentucky, April 18, 1993.
367. Is corticotropin-releasing factor the black bile of melancholia? Further studies of hypothalamic-pituitary-adrenal axis dysregulation in depression. Ninth Annual Edward J. Sachar Award lecture, Columbia University College of Physicians and Surgeons, New York, New York, May 7, 1993.
368. Hypothalamic-pituitary-adrenal axis dysfunction in depression. Grand Rounds, Department of Psychiatry, Medical College of Georgia, Augusta, Georgia, May 13, 1993.
369. The role of CRF in depression. Canadian College of Neuropsychopharmacology, 16th Annual meeting, Montreal, Canada, May 31, 1993.
370. Corticotropin-releasing factor antagonists as potential anxiolytics and antidepressants. In: Symposium on Strategies for the Development of Neuropeptide-based Therapeutics. Summer Neuropeptide Conference 1993, Martha's Vineyard, Massachusetts, June 24, 1993.
371. The role of serotonin in the pathophysiology of depression: focus on the serotonin transporter. In: The Decade of the Brain: Recent developments in the neurochemistry of

depression, mania and other mood disorders. National Academy of Clinical Biochemistry  
17th Annual Meeting, New York, NY, July 10, 1993.

372. The role of CRF in the pathophysiology of depression. Society for Drug Research, Cambridge, England, July 15, 1993.
373. CRF and Depression. University of Cambridge, Department of Psychiatry, Addenbrooke's Hospital, Cambridge, England, July 15, 1993.
374. Invited participant, Consensus Conference on Classic and Newer Antidepressants, Saint Tropez, France, September 4-5, 1993.
375. The role of CRF in the pathophysiology of depression: preclinical and clinical studies. First Int. Congress on Hormones, Brain and Neuropsychopharmacology. Rhodes, Greece, September 14, 1993.
376. Cancer and depression: diagnostic and biologic measures. First Int. Congress on Hormones, Brain and Neuropsychopharmacology. Rhodes, Greece, September 17, 1993.
377. Depression: an age-related disease. Int Soc Psychoneuroendocrinology, 24th Annual Meeting, Taormina, Sicily, September 23, 1993.
378. Biology and treatment of schizophrenia and other psychoses. Florida Psychiatric Society Annual Meeting. Orlando, Florida, October 16, 1993.
379. Diagnosis and treatment of depression in the medically ill. Grand Rounds, Department of Psychiatry and Human Behavior, University of Mississippi School of Medicine, Jackson, Mississippi, November 30, 1993.
380. Peptides and affective disorders. Association for Research in Nervous and Mental Disease, 73rd Annual Meeting, New York, New York, December 3, 1993.
381. Co-chairman and participant, panel on molecular regulation of central corticotropin-releasing hormone. Regulation of CRF in the Locus Coeruleus: Behavioral and Pharmacological Manipulations. 32nd Annual Meeting of the American College of Neuropsychopharmacology, Honolulu, Hawaii, December 14, 1993.
382. Is corticotropin-releasing factor the black bile of melancholia? Further studies of HPA axis dysregulation in depression. Grand Rounds, Department of Psychiatry, University of North Carolina School of Medicine, Chapel Hill, North Carolina, January 20, 1994.
383. New strategies for treatment resistant depression. Clinical psychopharmacology: an update. Stanford University School of Medicine, Stanford, California, January 22, 1994.
384. Diagnosis and treatment of bipolar disorder. Grand Rounds, Department of Psychiatry, Beth Israel Hospital, New York, New York, February 3, 1994.
385. The effect of typical and atypical antipsychotic drugs on neurotensin-containing neurons in the central nervous system. Second International Conference on Clozapine, Garden City, New York, February 25, 1994.

386. Depression and endocrine disorders: focus on the thyroid and adrenal. Second International Conference on Mood Disorders, Paris, France, March 12, 1994.
387. Diagnosis and treatment of bipolar disorder. Grand Rounds, Department of Psychiatry, University of Tennessee School of Medicine, Memphis, Tennessee, March 19, 1994.
388. Is corticotropin-releasing factor the black bile of melancholia? Further studies of the hypothalamic-pituitary-adrenal axis dysregulation in depression. Grand Rounds, Department of Psychiatry, University of Rochester School of Medicine, Rochester, New York, March 30, 1994.
389. Management of treatment-refractory depression. Grand Rounds, Department of Psychiatry, New York Medical College, Valhalla, New York, March 31, 1994.
390. Is CRF the black bile of melancholia: further studies of HPA axis dysregulation in depression. Grand Rounds, Department of Psychiatry, University of Oregon Health Sciences Center, Portland, Oregon, April 5, 1994.
391. Is CRF the black bile of melancholia: further studies of HPA axis dysregulation in depression. Grand Rounds, Department of Psychiatry, University of Manitoba School of Medicine, Winnipeg, Canada, April 7, 1994.
392. Further studies of HPA axis dysregulation in depression. Grand Rounds, Department of Psychiatry, University of Wisconsin School of Medicine, Madison, Wisconsin, May 6, 1994.
393. Hypothalamic-pituitary-adrenal axis: alterations after early trauma. Plenary address, Society of Biological Psychiatry, 49th Annual meeting, Philadelphia, Pennsylvania, May 19, 1994.
394. Treatment of depression in bipolar patients. American Psychiatric Assn 150th Annual Meeting, Philadelphia, Pennsylvania, May 23, 1994.
395. Corticotropin-releasing factor and the genesis of depression. Royal College of Psychiatrists Annual Meeting, Cork, Ireland, July 7, 1994.
396. Neurobiology of cancer and depression. 25th Ann Meeting, Int Soc Psycho-neuroendocrinology, Seattle, Washington, August 18, 1994.
397. Corticotropin-releasing factor, early adverse life experience and the pathophysiology of depression. Grand Rounds, Department of Psychiatry, University of California/San Diego, San Diego, California, September 8, 1994.
398. Management of treatment-refractory depression. Grand Rounds, Department of Psychiatry and Behavioral Sciences, Leonard M. Miller School of Medicine, University of Miami, Miami, Florida, September 16, 1994.
399. Managing the patient with depressive disorders: evolving treatment options. American Academy of Clinical Psychiatrists Annual Meeting, Washington DC, October 8, 1994.
400. Neurohormones, stress and psychiatric illness. First World Congress on Stress, Washington DC, October 8, 1994.

401. Recent advances in the biology of depression. Grand Rounds, Department of Psychiatry, Rush Presbyterian Medical Center, Chicago, Illinois, October 13, 1994.
402. Invited participant, Cayman Neuropeptide Conference, November 18-20, 1994.
403. Evidence for a preeminent role for corticotropin-releasing factor in the pathophysiology of post-traumatic stress disorder: preclinical and clinical studies. American College of Neuropsychopharmacology, San Juan, Puerto Rico, December 14, 1994.
404. The role of HPA axis alterations in the pathophysiology of affective disorders. Grand Rounds, Massachusetts Mental Health Center, Harvard Medical School, Boston, Massachusetts, January 20, 1995.
405. The biology of mood disorders. Grand Rounds, Department of Psychiatry, Southern Illinois School of Medicine, Springfield, Illinois, February 24, 1995.
406. Hypothalamic-pituitary-adrenal axis alterations in mood disorders. Grand rounds, Department of Psychiatry, University of Kansas School of Medicine, Wichita, Kansas, February 28, 1995.
407. Diagnosis and treatment of bipolar disorder. 17th Annual Winter Menninger Psychiatry Conference, Park City, Utah, March 8, 1995.
408. Diagnosis and management of depression in the elderly. 17th Annual Winter Menninger Psychiatry Conference, Park City, Utah, March 9, 1995.
409. Management of treatment-refractory depression. Grand Rounds, Department of Psychiatry, Georgetown University School of Medicine, March 23, 1995.
410. Contemporary management of depression. Grand Rounds, The Menninger Clinic, Topeka, Kansas, April 19, 1995.
411. Co-chairman and participant, Brain and Adrenal Gland Imaging in Affective Disorders. Second International Conference on New Directions in Affective Disorders. Jerusalem, Israel, September 4, 1995.
412. Participant, Depression in the Medically Ill. Second International Conference on new Directions in Affective Disorders, Jerusalem, Israel, September 7, 1995.
413. Corticotropin-releasing Factor, Stress and the Pathogenesis of Mood and Anxiety Disorders. The Neurobiology of Stress, A satellite symposium to the meeting of European Neuroscientists, Groningen, The Netherlands, September 9, 1995.
414. The role of CRF in depression: the importance of early adverse experience. Grand Rounds, Department of Psychiatry, Washington University School of Medicine, St. Louis, Missouri, September 26, 1995.
415. Management of treatment-refractory depression. Grand Rounds, Department of Psychiatry, University of Complutense School of Medicine, Madrid, Spain, October 8, 1995.

416. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry and Behavioral Sciences, University of Texas Medical Branch at Galveston, Galveston, Texas, October 31, 1995.
417. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry and Behavioral Sciences, University of Texas Southwestern Medical School at Dallas, Dallas, Texas, November 4, 1995.
418. The role of corticotropin-releasing factor (CRF) in the pathophysiology of depression: the role of early adverse experience. In: The Neurobiology of Early Trauma: Implications for the Pathophysiology of Mood and Anxiety Disorders. 25th Annual Meeting of the Society of Neuroscience, San Diego, California, November 13, 1995.
419. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, California, November 16, 1995.
420. Controversies in the treatment of depression. First Regional ACNP Update on Practical Clinical Psychopharmacology, New York, New York, December 2, 1995.
421. Management of Treatment-Refractory Depression. New York State Office of Mental Health Research Conference, Albany, New York, December 5, 1995.
422. Co-Chairman and participant, Corticotropin-releasing factors: from gene to therapy. Amer College Neuropsychopharmacol. San Juan, Puerto Rico, December 13, 1995.
423. The Role of Serotonin in the Pathophysiology of Depression. Grand Rounds, Department of Psychiatry, University of Missouri School of Medicine, Kansas City, Missouri, January 11, 1996.
424. The Role of Serotonin in the Pathophysiology of Depression. Grand Rounds, Department of Psychiatry, St. Louis University School of Medicine, St. Louis, Missouri, January 23, 1996.
425. The HPA Axis and the Pathophysiology of Depression: The Role of Early Adverse Experience. Grand Rounds, Department of Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania, February 1, 1996.
426. The HPA Axis and the Pathophysiology of Depression: The Potential Role of Early Adverse Experience. NIH Directors Conference, Bethesda, Maryland, February 14, 1996.
427. The HPA Axis and the Pathophysiology of Depression: The Role of Early Adverse Experience. Grand Rounds, Department of Psychiatry, Cornell University School of Medicine, New York, New York, March 20, 1996.
428. The HPA Axis and the Pathophysiology of Depression: The Role of Early Adverse Experience. Grand Rounds, Department of Psychiatry, University of Florida School of Medicine, Gainesville, Florida, March 26, 1996.
429. The HPA Axis and the Pathophysiology of Depression: The Role of Early Adverse Experience. Grand Rounds, Department of Psychiatry, University of Hawaii School of Medicine, Honolulu, Hawaii, May 17, 1996.

430. The HPA Axis and the Pathophysiology of Depression: The Role of Early Adverse Experience. Grand Rounds, Department of Psychiatry, University of Arkansas School of Medicine, Little Rock, Arkansas, May 24, 1996.
431. Psychopharmacology in the 21st Century. Grand Rounds, Department of Psychiatry, Medical College of Wisconsin, Milwaukee, Wisconsin, July 10, 1996.
432. The HPA Axis and the Pathophysiology of Depression: The Role of Early Adverse Experience. Grand Rounds, Department of Psychiatry, The University of Michigan, Ann Arbor, Michigan, July 17, 1996.
433. The HPA Axis and the Pathophysiology of Depression: The Role of Early Adverse Experience. Grand Rounds, Department of Psychiatry, University of Colorado Health Sciences Center, Denver, Colorado, September 18, 1996.
434. Mixed Depression/Anxiety States. Grand Rounds, Department of Psychiatry, University of Utah School of Medicine, Salt Lake City, Utah, October 8, 1996.
435. The HPA Axis and the Pathophysiology of Depression: The Role of Early Adverse Experience. Grand Rounds, Department of Psychiatry, Medical College of Georgia, Augusta, Georgia, October 31, 1996.
436. The HPA Axis and the Pathophysiology of Depression: The Role of Early Adverse Experience. Grand Rounds, Department of Psychiatry, University of Mississippi, Jackson, Mississippi, November 1, 1996.
437. Antidepressants and the Cytochrome P450 System. Grand Rounds, Department of Psychiatry, University of Maryland, Baltimore, Maryland, November 7, 1996.
438. Psychopharmacology in the 21st Century. Grand Rounds, Department of Psychiatry, Stanford University, Stanford, California, January 9, 1997.
439. The HPA Axis and the Pathophysiology of Depression: The Role of Early Adverse Experience. Grand Rounds, Department of Psychiatry, Jefferson Hospital, Philadelphia Pennsylvania, February 5, 1997.
440. Psychopharmacology in the 21st Century. Grand Rounds, Department of Psychiatry, Albert Einstein Medical Center, Philadelphia, Pennsylvania, March 7, 1997.
441. The HPA axis and the pathophysiology of depression: the role of early adverse experience. The Eighteenth Annual Alberto DiMascio Memorial Lecture, Tufts University School of Medicine, Boston, Massachusetts, April 7, 1997.
442. Psychopharmacology in the 21<sup>st</sup> Century. Plenary lecture, Stress and the Pituitary Adrenal Axis, Center for Psychobiological and Psychosomatic Research, University of Trier, Trier, Germany, June 21, 1997.
443. Psychopharmacology in the 21<sup>st</sup> century. Grand Rounds, Department of Psychiatry, Baylor University College of Medicine, Houston, Texas, September 3, 1997.

444. Overview of CRH in psychiatric diseases. Xth Congress of the European College of Neuropsycho-pharmacology, Vienna, Austria, September 14, 1997.
445. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Xth Congress of the European College of Neuropsychopharmacology, Vienna, Austria, September 15, 1997.
446. Treatment of Anxiety Disorders. Grand Rounds, Department of Psychiatry, University of Kansas, Kansas City, Kansas, October 3, 1997.
447. Depression and Cardiovascular Disease. Grand Rounds, Department of Psychiatry, University of Nebraska, Creighton University Medical Center, October 8, 1997.
448. Theoretical approaches to the pharmacotherapy of affective disorders in the 21<sup>st</sup> century. Serotonin Summit, Amsterdam, Netherlands, October 24, 1997.
449. Psychopharmacology in the 21<sup>st</sup> century: the elements of style and being mentored by a giant. The 14<sup>th</sup> Annual George C. Ham Symposium, Department of Psychiatry, University of North Carolina School of Medicine, Chapel Hill, North Carolina, November 1, 1997.
450. Biological impact of early abuse on adult major depressive disorder. International Society for Traumatic Stress Studies, 13<sup>th</sup> Annual Meeting, Montreal, Canada. November 9, 1997.
451. Depression and Cardiovascular Disease. Grand Rounds, Department of Psychiatry, University of Texas Health Science Center at San Antonio, San Antonio, Texas, November 11, 1997.
452. The Role of Corticotropin-Releasing Factor (CRF) in Depression: Therapeutic Implications. American College of Neuropsychopharmacology, 36<sup>th</sup> Annual Meeting, Waikoloa, Hawaii, December 10, 1997.
453. Depression and Cardiovascular Disease. Grand Rounds, Department of Internal Medicine, University of Texas, Houston, Texas, January 6, 1998.
454. Psychopharmacology in the 21<sup>st</sup> Century. Grand Rounds, Department of Psychiatry and Behavioral Sciences, University of Texas, Houston, Texas, January 7, 1998.
455. Depression and Cardiovascular Disease. Grand Rounds, Department of Psychiatry, Evanston Hospital, Evanston, Illinois, January 27, 1998.
456. Depression and Cardiovascular Disease. Grand Rounds, Department of Psychiatry, Reading Hospital, Reading, Pennsylvania, February 10, 1998.
457. Psychopharmacology in the 21<sup>st</sup> Century. Grand Rounds, Department of Psychiatry and Health Behavior, Medical College of Georgia, Augusta, Georgia, February 26, 1998.
458. Reassessing the Role of Lithium in the Management of Bipolar Disorder. Grand Rounds, Case Western Reserve University, Cleveland, Ohio, April 10, 1998.
459. Depression and Cardiovascular Disease. Grand Rounds, Department of Cardiology, Emory University School of Medicine, Atlanta, Georgia, April 13, 1998.

460. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, McLean Hospital, Boston, Massachusetts, April 23, 1998.
461. The HPA axis and the pathophysiology of depression: the role of early adverse experience. The 26<sup>th</sup> Annual Herbert S. Ripley Lecture, Department of Psychiatry and Behavioral Sciences, The University of Washington, Seattle, Washington, May 6, 1998.
462. Neurochemical mechanisms underlying brain alteration in depression. XXIst CINP Congress, Glasgow, Scotland, July 12, 1998.
463. Early life stress and the vulnerability to depression: preclinical and clinical studies. XXIst CINP Congress, Glasgow, Scotland, July 14, 1998.
464. Depression and cardiovascular disease: epidemiology, pathophysiology and treatment. International Society of Psychoneuroendocrinology, 29<sup>th</sup> Annual Meeting, Trier, Germany, August 4, 1998.
465. Depression and heart disease: pathophysiology and treatment. Grand Rounds, Department of Psychiatry, University of Cincinnati, Cincinnati, Ohio, August 26, 1998.
466. Depression and cardiovascular disease. Grand Rounds, Department of Psychiatry and Behavioral Sciences, Leonard M. Miller School of Medicine, University of Miami, Miami, Florida, August 28, 1998.
467. The HPA axis and the pathophysiology of depression: the role of early adverse experience, Grand Rounds, Department of Psychiatry, Wayne State University, Detroit, Michigan, September 30, 1998.
468. The HPA axis and the pathophysiology of depression: the role of early adverse experience, Grand Rounds, Brigham and Women's Hospital, Boston, Massachusetts, October 1, 1998.
469. The HPA axis and the pathophysiology of depression: the role of early adverse experience, Grand Rounds, Department of Psychiatry, Oregon Health Sciences University, Portland, Oregon, October 13, 1998.
470. Depression and cardiovascular disease. Grand Rounds, Providence St. Vincent Medical Center, Portland, Oregon, October 14, 1998.
471. What can we learn from CSF studies: the CRF database. Plenary lecture, European College of Neuropsychopharmacology Annual Meeting, Paris, France, November 2, 1998.
472. The relationship of depression and coronary artery disease. Grand Rounds, Mt. Sinai Hospital, New York, New York, December 1, 1998.
473. Psychopharmacology in the 21<sup>st</sup> century. Joseph A. Stokes, Jr., Visiting Professor Lecture, Children's Hospital of Philadelphia, January 21, 1999, Philadelphia, Pennsylvania.
474. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Neurodevelopmental factors in psychopathology, Emory University, January 29, 1999, Atlanta, Georgia.

475. Depression and cardiovascular disease. Grand Rounds, Indiana University, Department of Psychiatry, Indianapolis, Indiana, February 26, 1999.
476. Neuropharmacology of the future. Masters of Psychiatry Psychopharmacology Update, University of Miami School of Medicine, Key West, Florida, February 27, 1999.
477. Neurosciences contribution to developing new treatments. American Psychopathological Association Annual Meeting, New York, New York, March 4, 1999.
478. Psychopharmacology in the 21<sup>st</sup> century. American Association for Geriatric Psychiatry, New Orleans, Louisiana, March 15, 1999.
479. Psychopharmacology in the 21<sup>st</sup> century. Grand Rounds, Department of Psychiatry, State University of New York Health Science Center at Brooklyn, March 17, 1999.
480. The impact of early life adverse experiences on brain systems involved in anxiety and affective disorders. Anxiety Disorders Association of America Annual Meeting, San Diego, California, March 25, 1999.
481. The relationship of depression to cardiovascular disease. Grand Rounds, Reading Hospital, Reading, Pennsylvania, March 31, 1999.
482. Depression and cardiovascular disease. Grand Rounds, Department of Psychiatry, Beth Israel Medical Center, New York, April 1, 1999.
483. The neurobiology of early trauma and the pathophysiology of depression. Mysell Lecture, Department of Psychiatry, Harvard Medical School, Boston, Massachusetts, April 14, 1999.
484. The role of neuropeptides in the pathophysiology and pharmacotherapy of schizophrenia. Plenary Lecture, International Congress on Schizophrenia Research, Santa Fe, New Mexico, April 19, 1999.
485. The role of early adverse life experience in the development of mood disorders. American Psychiatric Association Annual Meeting, Washington DC, May 16, 1999.
486. The persistent neurobiological consequences of early untoward life events: treatment implications. American Psychiatric Association Annual Meeting, Washington DC, May 19, 1999.
487. Problems with currently available antidepressants. American Psychiatric Association Annual Meeting, Washington DC, May 19, 1999.
488. Depression and cardiovascular disease. American Psychiatric Association Annual Meeting, Washington DC, May 20, 1999.
489. Innovations in antidepressant treatment development. NCDEU 39<sup>th</sup> Annual Meeting, Boca Raton, Florida, June 2, 1999.
490. Depression and Heart Disease. Grand Rounds, Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, June 3, 1999.

491. Neurobiology of early trauma: implications for the pathophysiology of depression. Fifth Annual Medicine in the 21<sup>st</sup> Century Symposium, UMDNJ New Jersey Medical School, Department of Psychiatry, Newark, NJ, June 11, 1999.
492. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Fleur Strand Research Award Keynote Lecture, Summer Neuropeptide Conference, Key West, Florida, June 29, 1999.
493. Early life stress and depression. XI World Congress of Psychiatry, Hamburg, Germany, August 7, 1999.
494. Managing depressive symptoms in bipolar disorders. Chair and participant, 12<sup>th</sup> ECNP Congress, London, England, September 25, 1999.
495. Depression and cardiovascular disease. Grand Rounds, Department of Psychiatry and Behavioral Neurosciences, Wayne State University, Detroit, MI, September 29, 1999.
496. Psychotropic drug trials. USA-Cuba Neuroscience meeting, Havana, Cuba, October 21, 1999.
497. Neuroscience of psychiatry. Session moderator, USA-Cuba Neuroscience meeting, Havana, Cuba, October 22, 1999.
498. Alterations in the hypothalamic-pituitary-adrenal axis in depression: the role of early untoward experience. Grand Rounds, Department of Psychiatry, Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL, November 10, 1999.
499. Mixed depression and anxiety. Grand Rounds, Department of Medicine, University of Mississippi, Jackson, Mississippi, November 16, 1999.
500. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry and Behavioral Sciences, Baylor College of Medicine, Houston, TX , November 17, 1999.
501. Adverse effect of depression on cardiovascular disease: biology and treatment. Grand Rounds, Department of Medicine, University of Rochester Medical Center, Rochester, NY, December 2, 1999.
502. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry and Human Behavior, Jefferson Medical College, Philadelphia PA, January 19, 2000.
503. The psychiatrist as medical consultant. Session participant, The American College of Psychiatrists Annual Meeting, Naples, Florida, February 17, 2000.
504. The neurobiology of early trauma. Masters of Psychiatry: Advances for the 21<sup>st</sup> Century. University of Miami School of Medicine, Key West FL, February 26, 2000.
505. Pharmacotherapy of depression in dementia. American Association for Geriatric Psychiatry Annual Meeting, Miami, FL, March 14, 2000.
506. The persistent neurobiological consequences of early abuse. Plenary lecture, 43<sup>rd</sup> Congress of the Swiss Society of Child and Adolescent Psychiatry, Lausanne, Switzerland, April 7, 2000.

507. The HPA axis and the pathophysiology of depression: the role of early adverse experience. William C. Menninger Memorial Award Lecture, American College of Physicians, Philadelphia PA, April 14, 2000.
508. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, Duke University Medical Center, April 20, 2000.
509. CRF<sub>1</sub> receptor antagonists as novel putative antidepressants and anxiolytics. Society of Biological Psychiatry Annual Meeting, Chicago, Illinois, May 12, 2000.
510. Corticotropin-releasing factor antagonists: promising therapy for depression. American Psychiatric Association Annual Meeting, Chicago, Illinois, May 14, 2000.
511. Novel actions of antidepressants. American Psychiatric Association Annual Meeting, Chicago, Illinois, May 14, 2000.
512. The adverse impact of depression on cardiovascular disease: pathophysiology and treatment considerations. American Psychiatric Association Annual Meeting, Chicago, Illinois, May 15, 2000.
513. A chair's life: Ethiopia, Taiwan, Geneva, Atlanta and Los Angeles. American Psychiatric Association Annual Meeting, Chicago, Illinois, May 16, 2000.
514. Noradrenaline and antidepressant response. Chair and participant, XXII<sup>nd</sup> CINP Congress, Brussels, Belgium, July 11, 2000.
515. The role of noradrenaline in the pathophysiology of depression and its treatment. XXII<sup>nd</sup> CINP Congress, Brussels, Belgium, July 11, 2000.
516. Interactions of noradrenergic and CRF-containing neural systems: implications for the pathophysiology and treatment of depression. XXII<sup>nd</sup> CINP Congress, Brussels, Belgium, July 11, 2000.
517. The role of neuropeptides in the pathophysiology of depression and the mechanism of action of antidepressant drugs. Plenary lecture, XXII<sup>nd</sup> CINP Congress, Brussels, Belgium, July 12, 2000.
518. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Guest Lecture, British Association for Psychopharmacology, Cambridge, England, July 17, 2000.
519. CRF antagonists. Chair and participant, Second International Congress on Hormones, Brain and Neuropsychopharmacology, Rhodes, Greece, July 18, 2000.
520. The role of norepinephrine in depression. Grand Rounds, The Institute of Living, Hartford, Connecticut, August 9, 2000.
521. The future of psychopharmacology: problems and promises. National Depressive and Manic-Depressive Association 2000 National Conference, Boston, Massachusetts, August 12, 2000.
522. Psychopharmacology in the 21<sup>st</sup> century. Guest lecture, Rudolf Magnus Institute, University of Utrecht, Utrecht, Netherlands, September 3, 2000.

523. The HPA axis and the pathophysiology of depression: the role of early adverse experience. The Second Organon Lecture, Institute of Psychiatry at the Maudsley, King's College London, London, England, September 4, 2000.
524. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, Rush-Presbyterian-St. Luke's Medical Center, Chicago, Illinois, September 20, 2000.
525. Depression and heart disease: biology and treatment. Current Concepts in Neurosciences and Psychiatry, Hilton Head Island, South Carolina, September 30, 2000.
526. The role of childhood trauma in the neurobiology of mood and anxiety disorders: preclinical and clinical studies. National Depressive and Manic-Depressive Association 2000 Consensus Conference, Washington DC, October 17, 2000.
527. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, University of Texas Southwestern Medical Center, Dallas, Texas, October 20, 2000.
528. Depression and cardiovascular disease. Grand Rounds, Department of Psychiatry, Medical University of South Carolina, Charleston, South Carolina, October 31, 2000.
529. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, University of Cincinnati, Cincinnati, Ohio, November 1, 2000.
530. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand rounds, Department of Psychiatry, University of Kansas Medical Center, Kansas City, Kansas, November 10, 2000.
531. The role of CRF systems in the pathophysiology of depression and anxiety: do they mediate the effects of early trauma? The 17<sup>th</sup> Annual George C. Ham Symposium, University of North Carolina School of Medicine, Chapel Hill, North Carolina, November 18, 2000.
532. Neurosciences and the brain: the past, the present and the future. Psychiatry in the 21<sup>st</sup> Century: Mental Illness and Addiction, Department of Psychiatry, University of Toronto, Toronto, Canada, November 30, 2000.
533. Psychopharmacology of the future: problems and promises. Psychopharmacology State of the Art at the Dawn of the 21<sup>st</sup> Century, New York Academy of Medicine, Albert Einstein College of Medicine, New York, New York, December 1, 2000.
534. Long term effect of trauma early in life on the brain: implications for vulnerability to depression and anxiety. Emory University Great Teachers Lecture Series, Emory University, Atlanta, Georgia, January 25, 2001.
535. Depression and cardiovascular disease. Grand Rounds, Department of Psychiatry, University of Alabama, Birmingham, Alabama, January 30, 2001.
536. Novel drug development of mood and anxiety disorders. Invited lecture, American College of Psychiatrists Annual Meeting, Tucson, Arizona, February 21, 2001.

537. The role of norepinephrine in the pathophysiology of depression and anxiety disorders. Grand Rounds, Department of Psychiatry, California Pacific Medical Center, San Francisco, California, March 6, 2001.
538. The persistent neurobiological consequences of early life trauma: implications for the pathophysiology of mood and anxiety disorders. The Patricia R. Barchas Award lecture, American Psychosomatic Society Annual Meeting, Monterey, California, March 10, 2001.
539. How does trauma increase risk for mood and anxiety disorders? Invited lecture, Anxiety Disorders Association of America Annual Meeting, Atlanta, Georgia, March 23, 2001.
540. CRF-serotonergic interaction in the aetiology of depression and anxiety. 1<sup>st</sup> World Congress on Women's Mental Health, Berlin, Germany, March 28, 2001.
541. The relationship of early trauma to neuroendocrine and cardiovascular alterations in women with and without adult depression. 1<sup>st</sup> World Congress on Women's Mental Health, Berlin, Germany, March 29, 2001.
542. From laboratory bench to bedside: advances in the neurobiology and neuropharmacology in depression in women. 1<sup>st</sup> World Congress on Women's Mental Health, Berlin, Germany, March 29, 2001.
543. Neurobiology of early trauma and its treatment implications. Grand Rounds, Department of Psychiatry, Harvard Medical School, Boston, Massachusetts, April 10, 2001.
544. The neurobiology of depression and the neurobiology of early trauma: implications for the neurobiology of suicide. Research Award Lecture, American Foundation for Suicide Prevention, New York, New York, April 30, 2001.
545. Behavioral and neurochemical predictors of antipsychotic drug action. American Psychiatric Association Annual Meeting, New Orleans, Louisiana, May 6, 2001.
546. Biopsychosocial model: biological perspectives. American Psychiatric Association Annual Meeting, New Orleans, Louisiana, May 8, 2001.
547. Approaches to optimizing therapies across psychiatric diagnoses: remission is the goal. American Psychiatric Association Annual Meeting, New Orleans, Louisiana, May 8, 2001.
548. Psychopharmacology in the 21<sup>st</sup> century: focus on depression. Keynote address, The Royal Australian and New Zealand College of Psychiatrists (RANZCP) 36<sup>th</sup> Congress, Canberra, Australia, May 22, 2001.
549. Anticonvulsants in the treatment of bipolar disorder. The Royal Australian and New Zealand College of Psychiatrists (RANZCP) 36<sup>th</sup> Congress, Canberra, Australia, May 22, 2001.
550. Treatment of depression. Grand Rounds, Department of Psychiatry, Alta Bates Summit Medical Center, Berkeley, CA, June 5, 2001.
551. Long-term neurobiological consequences of early life trauma. Keynote address, joint meeting of the American Academy of Psychoanalysis (AAP) and Organizzazione di Psicoanalisti Italiani-Federazione e Registro (OPIFER), Venice, Italy, June 18, 2001.

552. The clinical relevance of norepinephrine. Florida Psychiatric Society, Ft. Lauderdale, FL, June 26, 2001.
553. The role of norepinephrine in depression and its treatment. Grand Rounds, Department of Psychiatry, Four Winds Hospital, Saratoga Springs, NY, June 27, 2001.
554. From receptor pharmacology to clinical reality. 7<sup>th</sup> World Congress of Biological Psychiatry, Berlin, German July 3, 2001.
555. The role of CRF in the pathophysiology of mood and anxiety disorders. 7<sup>th</sup> World Congress of Biological Psychiatry, Berlin, Germany, July 4, 2001.
556. From mentee to mentor: the transition of the young investigator to the established investigator. Keynote speaker, NIMH Division of Neuroscience and Basic Behavioral Science, Mentored Clinical Neuroscience Research Career Development Workshop, Bethesda, Maryland, July 23, 2001.
557. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, Harbor/UCLA Medical Center, Torrance, CA, July 25, 2001.
558. The future of clinical research. National Institute of Mental Health Workshop, Rockville, MD, August 13, 2001.
559. Depression and cardiovascular disease. Grand Rounds, St. Luke's Medical Center, Milwaukee WI, September 20, 2001.
560. Depression and cardiovascular disease. Grand Rounds, Department of Psychiatry, University of Oklahoma, Oklahoma City, OK, September 20, 2001.
561. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, University of Oklahoma, Tulsa, OK, September 26, 2001.
562. Psychopharmacology in the 21<sup>st</sup> century. Guest lecture, Tulsa Psychiatric Society, Tulsa, OK, September 26, 2001.
563. The clinical relevance of norepinephrine. Grand Rounds, Department of Psychiatry, St. Vincent's Hospital Westchester, Harrison, New York, October 2, 2001.
564. Neurobiological basis of major psychiatric disorders and addictions: problems and promises. Keynote lecture, The II International Symposium on Mental Health and Addictions, Mexico City, Mexico, October 10, 2001.
565. The importance of remission in the treatment of depression. Grand Rounds, Department of Psychiatry, Ochsner Clinic, New Orleans, Louisiana, October 16, 2001.
566. Psychopharmacology in the new millennium. University of South Carolina School of Medicine, Current Concepts in Neurosciences and Psychiatry 26<sup>th</sup> Annual Hilton Head Symposium, Hilton Head, South Carolina, November 3, 2001.

567. The relationship of depression and cardiovascular disease. The 18<sup>th</sup> Annual George C. Ham Symposium, University of North Carolina School of Medicine, Chapel Hill, North Carolina, November 18, 2001.
568. The clinical relevance of norepinephrine. Grand Rounds, St. Elizabeth's Medical Center of Boston, Boston, Massachusetts, November 28, 2001.
569. Depression and cardiovascular disease. Grand Rounds, Cambridge Hospital, Boston, Massachusetts, November 28, 2001.
570. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, University of Massachusetts Medical School, Boston, Massachusetts, November 29, 2001.
571. The long-term effects of early life trauma on the CNS: implications for the pathophysiology of depression and PTSD. American College of Neuropsychopharmacology Annual Meeting, Waikoloa, Hawaii, December 13, 2001.
572. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, Beth Israel Hospital, New York, New York, December 19, 2001.
573. Psychopharmacology in the 21<sup>st</sup> century. Grand Rounds, Department of Psychiatry, Beth Israel Hospital, New York, New York, December 20, 2001.
574. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, Medical College of Georgia, Augusta, Georgia, January 10, 2002.
575. The role of dopamine in depression and other psychiatric disorders. Grand Rounds, Department of Psychiatry & Behavioral Neurobiology, University of Alabama at Birmingham, Birmingham, Alabama, January 15, 2002.
576. Early abuse and neglect and the etiology of mood and anxiety disorders in adulthood. Invited lecture, 4<sup>th</sup> Annual Masters of Psychiatry meeting, Florida Psychiatric Association Annual Meeting, Miami, Florida, February 23, 2002.
577. Neurobiological findings in clinical depression and bipolar disorder. Plenary lecture, The International Society for Affective Disorders Conference, Taormina, Sicily, March 11, 2002.
578. The relationship between affective disorders and physical illness. Chair and participant, The International Society for Affective Disorders Conference, Taormina, Sicily, March 11, 2002.
579. The role of early trauma in the development of depression. East Tennessee State University College of Medicine, Women's Health Conference, Johnson City, Tennessee, March 19, 2002.
580. Co-chair and participant, meeting on Effects of Early Life Events on Mind Brain Body Interactions, Sedona, Arizona, April 7-11, 2002.
581. Stress and its impact on Brain Development, Usdin Award Lecture, West Coast College of Biological Psychiatry, Santa Monica, California, April 19, 2002.

582. The neurobiological consequences of early life trauma increases vulnerability for depression in adulthood: therapeutic implications. Hamilton Ford Lecture, Titus Harris Society 42<sup>nd</sup> Annual Meeting, Galveston, Texas, April 26, 2002.
583. The HPA axis and the pathophysiology of depression: the role of early adverse experience. The Silvio Conte Research Center Neurobiology Seminar, California Institute of Technology, Pasadena, California, May 15, 2002.
584. Atypical depression: overview and new developments. American Psychiatric Association Annual Meeting, Philadelphia, Pennsylvania, May 19, 2002.
585. Childhood trauma and the neurobiology of mood disorders. American Psychiatric Association Annual Meeting, Philadelphia, Pennsylvania, May 21, 2002.
586. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, MCP Hahnemann University, Philadelphia, Pennsylvania, May 23, 2002.
587. Remission is the goal of treatment of depression. Plenary lecture, National Depressive and Manic-Depressive Association Annual Meeting, Orlando, Florida, August 10, 2002.
588. Preclinical studies of novel antidepressants. XII World Congress of Psychiatry, Yokohama, Japan, August 28, 2002.
589. Unmet needs and the neurobiology of depression. XII World Congress of Psychiatry, Yokohama, Japan, August 28, 2002.
590. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, University of South Florida, Tampa, Florida, September 6, 2002.
591. Depression and cardiovascular disease. Grand Rounds, Department of Psychiatry, State University of New York, Buffalo, New York, November 1, 2002.
592. Psychopharmacology in the new millennium: implications for the treatment of psychiatric disorders. Burlingame Award Lecture, The Institute of Living, Hartford, Connecticut, November 5, 2002.
593. The preeminent role of early life trauma in the neurobiology of depression. Grand Rounds, Department of Psychiatry, The Institute of Living, Hartford, Connecticut, November 6, 2002.
594. The role of early trauma in the pathophysiology of depression. The International Society for Traumatic Stress Studies 18<sup>th</sup> Annual Meeting, Baltimore, Maryland, November 8, 2002.
595. Psychopharmacology in the 21<sup>st</sup> century. The 19<sup>th</sup> Annual George C. Ham Symposium, Chapel Hill, North Carolina, November 23, 2002.
596. The role of dopamine in depression and other psychiatric disorders. Grand Rounds, Department of Psychiatry, California Pacific Medical Center, San Francisco, California, December 17, 2002.

597. Early life trauma and the pathophysiology of depression: preclinical and clinical studies. Institut Pasteur Euroconference on Depression, Paris, France, January 17, 2003.
598. The hypothalamic-pituitary-adrenal axis in depression. American Association for the Advancement of Science (AAAS) Annual Meeting, Denver, Colorado, February 14, 2003.
599. Depression and cardiovascular disease. Grand Rounds, Department of Psychiatry, University of British Columbia, Vancouver, British Columbia, February 25, 2003.
600. The role of dopamine in depression and other psychiatric disorders. Department of Psychiatry, University of Texas Southwestern, Dallas, Texas, March 13, 2003.
601. Animal models and clinical evidence for the enduring effect of early stress. Anxiety Disorders Association of America Annual Meeting, Toronto, Canada, March 27, 2003.
602. Heartache and heartbreak: important interactions of depression and cardiovascular disease. University of Wisconsin/Madison, Wisconsin Symposium on Emotion and Related Events, Madison, Wisconsin, April 10, 2003.
603. Psychoneuroimmunology: relevance to psychiatry. College of Psychiatric and Neurologic Pharmacists (CPNP) Annual Meeting, Charleston, South Carolina, May 2, 2003.
604. The persistent neurobiological consequences of early life trauma: implications for the pathophysiology of mood and anxiety disorders. National Institutes of Health, Clinical Center Grand Rounds, Washington DC, May 14, 2003.
605. Heartache and heartbreak: the remarkable relationship between depression and heart disease. Grand Rounds, Department of Psychiatry, Cedars-Sinai Medical Center, Los Angeles, California, May 15, 2003.
606. The pathophysiology and psychopharmacology of comorbid cardiovascular disease and depression. American Psychiatric Association Annual Meeting, San Francisco, California, May 18, 2003.
607. The neurobiological consequences of child abuse. Distinguished Psychiatrist Lecture, American Psychiatric Association Annual Meeting, San Francisco, California, May 19, 2003.
608. Use of antipsychotics in mood disorders. American Psychiatric Association Annual Meeting, San Francisco, California, May 20, 2003.
609. Heartache and heartbreak: important interactions of depression and cardiovascular disease. Grand Rounds, Department of Psychiatry, University of Utah School of Medicine, Salt Lake City, Utah, June 4, 2003.
610. Early abuse and HPA axis dysregulation in major depression. Symposium, World Psychiatric Association Conference, Vienna, Austria, June 20, 2003.
611. The neurobiology of depression: serotonin and norepinephrine. Symposium, World Psychiatric Association Conference, Vienna, Austria, June 21, 2003.
612. Management of bipolar depression. Georgia Psychiatric Physicians Association Annual Meeting, Panama City, Florida, August 1, 2003.

613. Heartache and heartbreak: the remarkable relationship between heart disease and depression. 34<sup>th</sup> Annual ISPNE meeting, New York, New York, September 8, 2003.
614. Depression and painful physical symptoms: the mind-body connection. American Association of Family Physicians Annual Meeting, New Orleans, Louisiana, September 30, 2003.
615. The neurobiology of mania: implications for treatment. American Psychiatric Nursing Association, Atlanta, Georgia, October 7, 2003.
616. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, Oregon Health Sciences University, Portland, Oregon, November 6, 2003.
617. Metabolic effects of antipsychotics. Panel co-chair, American College of Neuropsychopharmacology Annual Meeting, San Juan, Puerto Rico, December 9, 2003.
618. Heartache and heartbreak: the remarkable relationship between depression and cardiovascular disease. Plenary lecture, International College of Geriatric Psychoneuropharmacology, San Juan, Puerto Rico, December 12, 2003.
619. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, Stanford University School of Medicine, Stanford, California, January 8, 2004.
620. Stress and CRF: from basics to clinical applications. UCLA Center for Neurovisceral Sciences & Women's Health Symposium, Los Angeles, California, January 9, 2004.
621. Neurobiological consequences of early life trauma: indications for the pathophysiology of depression. Cuba-US Workshop on Biological Psychiatry, Havana, Cuba, January 17, 2004.
622. Early life abuse and the pathophysiology of major depression. Symposium co-chair and participant, International Congress of Biological Psychiatry, Sydney, Australia, February 12, 2004.
623. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, University of Illinois/Chicago, Chicago, Illinois, February 18, 2004.
624. Neuropeptides, antipsychotic drugs and the pathophysiology of schizophrenia. Dean Award lecture, American College of Psychiatrists Annual Meeting, Miami, Florida, February 28, 2004.
625. Further evidence for alterations in CRF and substance P systems. International Society for Affective Disorders 2<sup>nd</sup> Biennial Conference, Cancun, Mexico, March 8, 2004.
626. The role of early traumatic life experiences on the activity of the HPA axis in depression. International Society for Affective Disorders 2<sup>nd</sup> Biennial Conference, Cancun, Mexico, March 8, 2004.
627. Heartache and heartbreak: the remarkable relationship between depression and cardiovascular disease. Neuroscience Education Institute Lifetime Achievement Award

- lecture, NEI Global Psychopharmacology Congress Annual Meeting, San Diego, California, March 11, 2004.
628. The HPA axis and the pathophysiology of depression: the role of early adverse experience. NEI Global Psychopharmacology Congress Annual Meeting, San Diego, California, March 12, 2004.
629. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, McLean Hospital, Boston, Massachusetts, April 1, 2004.
630. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, University of New Mexico, Albuquerque, New Mexico, April 9, 2004.
631. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Frank O. Shobe Lecture, Department of Psychiatry, Washington University, St. Louis, Missouri, April 13, 2004.
632. Early life trauma and mood disorders: environment meets genes. 7<sup>th</sup> Annual Stanford Symposium on Developmental Approaches to Psychopathology, Stanford University Department of Psychiatry, Stanford, California, April 23, 2004.
633. Identification of risk factors for development of depression: focus on early life trauma. Chairman and participant, American Psychiatric Association 157<sup>th</sup> Annual Meeting, New York, New York, May 1, 2004.
634. Heartache and heartbreak: the remarkable relationship between depression and heart disease. American Psychiatric Association 157<sup>th</sup> Annual Meeting, New York, New York, May 1, 2004.
635. The biopsychosocial model: contribution of research. American Psychiatric Association 157<sup>th</sup> Annual Meeting, New York, New York, May 3, 2004.
636. Introduction to treatment-resistant depression. Chairman and participant, American Psychiatric Association 157<sup>th</sup> Annual Meeting, New York, New York, May 5, 2004.
637. The HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, University of Kansas, Wichita, Kansas, June 15, 2004.
638. SSRIs, SNRIs and isomers: myths, facts, and clinical reality. Chairman and participant, 24<sup>th</sup> Collegium International Neuro-Psychopharmacologicum (CINP), Paris, France, June 20, 2004.
639. The role of early trauma in the pathophysiology of depression. Plenary lecture, 26<sup>th</sup> Annual Meeting, Japanese Society of Biological Psychiatry & 34<sup>th</sup> Annual Meeting Japanese Society of Neuropsychopharmacology, Tokyo, Japan, July 22, 2004.
640. Psychopharmacology in the 21<sup>st</sup> century. Grand Rounds, Department of Psychiatry, Michigan State University, Lansing, Michigan, September 9, 2004.

641. Psychopharmacology in the 21<sup>st</sup> century. Grand Rounds, Department of Psychiatry, Reading Hospital, Reading, Pennsylvania, September 14, 2004.
642. Heartache and heartbreak: the remarkable relationship between depression and heart disease. Grand Rounds, Department of Psychiatry, Wayne State University, Detroit, Michigan, September 15, 2004.
643. The role of early trauma in the pathophysiology of depression. Grand Rounds, Department of Psychiatry, Vanderbilt University, Nashville, Tennessee, September 21, 2004.
644. The role of early trauma in the pathophysiology of depression. Grand Rounds, Department of Child and Adolescent Psychiatry, Children's Memorial Hospital, Northwestern University, Chicago, Illinois, September 24, 2004.
645. Advances in clinical neuroscience and psychopharmacology: from the laboratory bench to the bedside. Plenary lecture, 56<sup>th</sup> Institute on Psychiatric Services, Atlanta, Georgia, October 6, 2004.
646. Psychopharmacology in the 21<sup>st</sup> century. Grand Rounds, Department of Psychiatry, St. Pauls Hospital, Vancouver, British Columbia, October 8, 2004.
647. The role of early trauma in the pathophysiology of depression. Grand Rounds, Department of Psychiatry, Vancouver General Hospital, Vancouver, British Columbia, October 8, 2004.
648. The role of early trauma in the pathophysiology of depression. Invited lecture, Victoria Mood Disorders Conference, Victoria, British Columbia, October 9, 2004.
649. Psychopharmacology in the 21<sup>st</sup> century. Grand Rounds, Department of Psychiatry, University of Alabama/Birmingham, Birmingham, Alabama, October 12, 2004.
650. Management of bipolar depression. Grand Rounds, Department of Psychiatry, St. Louis University, St. Louis, Missouri, November 16, 2004.
651. Heartache and heartbreak: the remarkable relationship between depression and heart disease. Grand Rounds, Department of Psychiatry, Hannibal Regional Hospital, Hannibal, Missouri, November 16, 2004.
652. The remarkable relationship of the thyroid axis and mood disorders: clinical implications. American Association of Clinical Endocrinologists Consensus Conference, Washington DC, January 9, 2005.
653. The role of early life trauma in the pathophysiology of mood and anxiety disorders: the Emory-NIMH Conte Center. Grand Rounds, Department of Psychiatry, Emory University School of Medicine, Atlanta, Georgia, January 12, 2005.
654. Neurobiological effects of childhood abuse: implications for the pathophysiology of depression and anxiety. Plenary lecture, The Foundation for Psychocultural Research Conference, Los Angeles, California, February 13, 2005.

655. Early trauma as a risk factor for psychopathology: neurobiological and therapeutic implications. American College of Psychiatrists Annual Meeting, La Jolla, California, February 23, 2005.
656. Neurobiology of child abuse: treatment implications. Grand Rounds, Department of Psychiatry, East Tennessee State University, Johnson City, Tennessee, March 11, 2005.
657. Neurobiology of child abuse: treatment implications. Grand Rounds, Department of Psychiatry, Harvard Medical School, Boston, Massachusetts, March 15, 2005.
658. Neurobiology of child abuse: treatment implications. Grand Rounds, Department of Psychiatry, University of Colorado/Denver, Denver, Colorado, March 30, 2005.
659. Neurobiology of child abuse: treatment implications. Grand Rounds, Department of Psychiatry, University of Wisconsin/Madison, Madison, Wisconsin, April 5, 2005.
660. The neurobiology of trauma. Plenary lecture, Interdisciplinary Responses to Trauma symposium, Emory University Psychoanalytic Institute, Atlanta, Georgia, April 29, 2005.
661. Psychopharmacology in the 21<sup>st</sup> century. Grand Rounds, Department of Psychiatry, University of Utah School of Medicine, Salt Lake City, Utah, May 17, 2005.
662. The persistent neurobiological consequences of early life abuse or neglect: implications for the pathophysiology and treatment of mood disorders. Plenary lecture, Society of Biological Psychiatry, 60<sup>th</sup> Annual Meeting, Atlanta, Georgia, May 19, 2005.
663. The persistent neurobiological consequences of child abuse and neglect: therapeutic implications. Keynote lecture, The American Academy of Psychoanalysis and Dynamic Psychiatry, 49<sup>th</sup> Annual Meeting, Atlanta, Georgia, May 20, 2005.
664. The neurobiology of early life trauma: implications for the pathophysiology of mood and anxiety disorders. 2005 Spring Symposium, Atlanta Chapter Society for Neuroscience, Atlanta, Georgia, May 21, 2005.
665. The biopsychosocial model: contribution of research. Plenary lecture, the American College of Psychoanalysts Annual Meeting, Atlanta, Georgia, May 21, 2005.
666. Depression and cardiovascular disease: pathophysiology and treatment. American Psychiatric Association Annual Meeting, Atlanta, Georgia, May 21, 2005.
667. HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, Medical University of South Carolina, Charleston, South Carolina, June 3, 2005.
668. CRF and the pathogenesis of depression: treatment implications. Eighth World Congress of Biological Psychiatry, Vienna, Austria, June 29, 2005.
669. Advances in the treatment of psychiatric disorders. Eighth World Congress of Biological Psychiatry, Vienna, Austria, July 1, 2005.
670. Mood disorders: epidemiology, nosology, biology and treatment. Summer Program, RIKEN Brain Science Institute, Tokyo, Japan, July 20, 2005.

671. The role of early life trauma in the pathophysiology of mood disorders. Summer Program, RIKEN Brain Science Institute, Tokyo, Japan, July 20, 2005.
672. What's wrong in the depressed brain. The Picower Center Open Mind Series on Depression, Massachusetts Institute of Technology, Cambridge, Massachusetts, September 19, 2005.
673. Long term neurobiological consequences of child abuse: endocrine and brain imaging studies. Plenary lecture, International Society for Psychoneuroendocrinology, Annual Meeting, Montreal, Canada, September 25, 2005.
674. The neurobiology of child abuse: treatment implications. 1<sup>st</sup> Annual Update on Psychiatry, Mt. Sinai School of Medicine, New York, New York, October 1, 2005.
675. The neurobiological consequences of early life stress: treatment implications. Plenary lecture, International Society for Traumatic Stress Studies (ISTSS), 21<sup>st</sup> Annual Meeting, Toronto, Canada, November 3, 2005.
676. Persistent neurobiological consequences of child abuse in adult women: implications for the treatment of mood and anxiety disorders. Society for Neuroscience, 35<sup>th</sup> Annual Meeting, Washington DC, November 16, 2005.
677. The biology of childhood trauma. Institute of Psychiatry, King's College London, London, England, November 28, 2005.
678. Post MI depression and treatment implications. Neuroscience symposium, Department of Neuropsychiatry & Behavioral Science, University of South Carolina School of Medicine, Hilton Head, South Carolina, December 3, 2005.
679. Are there predictors of antidepressant treatment response? Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, Georgia, December 17, 2005.
680. HPA axis and the pathophysiology of depression: the role of early adverse experience. Grand Rounds, Department of Psychiatry, Baylor College of Medicine, Houston, Texas, January 4, 2006.
681. Diagnosis and treatment of bipolar disorder. Grand Rounds, Department of Psychiatry, Cedars Sinai Hospital, Los Angeles, California, January 19, 2006.
682. Heartache and heartbreak: the relationship of depression and cardiovascular disease. Plenary lecture, American College of Psychiatrists Annual Meeting, San Juan, Puerto Rico, February 24, 2006.
683. Psychopharmacology in the 21<sup>st</sup> century. Alabama Psychiatric Society, Annual Meeting, Destin, Florida, April 8, 2006.
684. Future shock. Demons of the Mind, Library of Congress conference, Washington DC, April 20, 2006.
685. Evolving concepts in treatment-resistant depression. American Psychiatric Association, 159<sup>th</sup> Annual Meeting, Toronto, Canada, May 21, 2006.

686. The neurobiology of depression: bringing the latest in science to clinicians. American Psychiatric Association, 159<sup>th</sup> Annual Meeting, Toronto, Canada, May 21, 2006.
687. Treatment of bipolar disorder. American Psychiatric Association, 159<sup>th</sup> Annual Meeting, Toronto, Canada, May 22, 2006.
688. VNS therapy in treatment-resistant depression: putative mechanism of action. XXV CINP Congress, Chicago, Illinois, July 9, 2006.
689. The neurobiological consequences of early life stress: clinical studies. XXV CINP Congress, Chicago, Illinois, July 12, 2006.
690. Heartache and heartbreak: the remarkable relationship between depression and heart disease. 2<sup>nd</sup> Annual Comprehensive Review of Psychiatry, Niagara Falls, New York, July 22, 2006.
691. Neurobiology of early life trauma: contributions to the neurobiology of depression. 37<sup>th</sup> Annual Conference of the International Society of Psychoneuroendocrinology, Leiden, The Netherlands, August 25, 2006.
692. Persistent neurobiological consequences of early life trauma: implication for the pathophysiology and treatment of mood disorders. Rudolf Magnus Institute of Neuroscience, Utrecht, The Netherlands, August 28, 2006.
693. Stress and the biological basis of depression: Implications for treatment. 8<sup>th</sup> Annual Psychiatric Symposium, Wright State University, Boonshoft School of Medicine, Department of Psychiatry: The Dayton Psychiatric Society and the Wallace Kettering Neuroscience Institute, Dayton, Ohio, November 7, 2006.
694. Psychopharmacology in the 21<sup>st</sup> century. Grand Rounds, Mission Hospitals Department of Internal Medicine, Asheville, NC, November 16, 2006.
695. Psychopharmacology in the 21<sup>st</sup> century. Grand Rounds, Broughton Hospital, Morganton, NC.
696. Neurobiology of childhood trauma: Consequences for later mental health. Annual Conference of The Psychiatric Educational Foundation of Norway, Schizophrenia Days 2006. Stavanger, Norway, November 23, 2006.
697. Trauma and PTSD: A paradigm shift?. Annual Conference of The Psychiatric Educational Foundation of Norway, Schizophrenia Days 2006. Stavanger, Norway, November 24 and 25, 2006.
698. The neurobiology of child abuse: Implications for the pathophysiology of depression. Teaching Conference, The University of Oklahoma Health Sciences Center, Department of Psychiatry and Behavioral Sciences. January 11, 2007.
699. Persistent neurobiological consequences of early life trauma: implication for the pathophysiology and treatment of mood disorders. Grand Rounds, Butler Hospital (Brown University), Providence, RI. February 7, 2007.

700. Overlap in the neurobiology, genetics, clinical presentation and treatment of bipolar disorder and schizophrenia. Grand Rounds, Portneuf Medical Center, Pocatello, ID. Feb. 15, 2007.
701. The burden of severe depression: A review of diagnostic challenges and treatment alternatives. Continuing Education Depression Conference, Turin, Italy. March 30, 2007.
702. Is depression a disorder of the whole body? The curiously strong association of depression and heart disease. Conference on Depression: Brain Causes - Body Consequences, Institute of Psychiatry, Kings College, London. April 2-3, 2007.
703. Is depression a disorder of the whole body? Neuroscience Colloquium, London, England. April 4, 2007.
704. The neurobiology of child abuse: Implications for the pathophysiology of depression. Department of Psychiatry Grand Rounds, University of Massachusetts, Worcester, MA. April 19, 2007.
705. It's not all in your head: The physical effects of antipsychotics. Neuroscience Education Institute Psychopharmacology Academy Symposium. San Francisco, CA. April 29, 2007.
706. Heartache and Heartbreak: The remarkable relationship between depression and heart disease and Mood Disorders: The biopsychosocial model. Colorado Mental Health Institute at Pueblo. Pueblo, CO. May 10, 2007.
707. Mechanism of action of vagus nerve stimulation (VNS). American Psychiatric Association Symposium: Caring for Our Most Challenging Patients with Depression: An Interactive Forum on Novel Treatments. San Diego, CA. May 20, 2007
708. The role of CRF in the pathophysiology of depression. Cancun, Mexico. June 4, 2007.
709. Does one size fit all? Customizing antipsychotic selection and dose to patient profile. Neuroscience Education Institute Psychopharmacology Academy Symposium. Tyson's Corner, VA. June 9, 2007.
710. The neurobiology of child abuse: treatment implications. Grand Rounds. Department of Psychiatry. Dartmouth University School of Medicine. Hanover, N.H. June 12, 2007.
711. Current and future management strategies for bipolar disorder. Grand Rounds. 2007 Neuroscience Grand Rounds Series: Enhancing Therapeutic Outcomes in Patients with Severe Mental Illness. Napa State Hospital, Napa, CA. July 23, 2007.
712. Managing chronic depression: treating to remission. Grand Rounds. 2007 Neuroscience Grand Rounds Series: Enhancing Therapeutic Outcomes in Patients with Severe Mental Illness. Santa Clara Valley Medical Center, San Jose, CA. August 9, 2007.
713. The neurobiology and psychopharmacology of depression and suicidality in children and adolescents. Conference on Youth Suicide: New Knowledge for a New Generation. American Foundation for Suicide Prevention, Dublin, Ireland. August 25-27, 2007.

714. The neurobiology of child abuse: implications for pathophysiology and treatment of depression. Grand Rounds, Department of Psychiatry, Ohio State University School of Medicine, Columbus, OH. September 5, 2007.
715. Psychopharmacology in the 21<sup>st</sup> Century. United Behavioral Health CME program. Columbus, Ohio. September 5, 2007.
716. The neurobiology of child abuse: Implications for pathophysiology and treatment of depression. Keynote speaker, 100<sup>th</sup> Anniversary Meeting of the Norwegian Psychiatric Association, Oslo, Norway. September 14, 2007.
717. The neurobiology of child abuse: Implications for pathophysiology and treatment of depression. The Inaugural Symposium, Untangling the Mind: Research on Depression, Anxiety and Schizophrenia. University of Ottawa Institute of Mental Health Research, Ottawa, Canada. September 26, 2007.
718. The neurobiological consequences of child abuse and neglect: Increased vulnerability for depression in adulthood. World Congress on Stress. Vienna, Austria. October 12, 2007.
719. Antipsychotic dosing and side-effect management: Improving patient outcomes. Grand Rounds, Department of Psychiatry, VA Medical Center, Tucson, AZ. October 24, 2007.
720. Antipsychotic dosing and side-effect management: Improving patient outcomes. Grand Rounds, Department of Psychiatry, University of Arizona, College of Medicine, Tucson, AZ. October 24, 2007.
721. Antipsychotic dosing and side-effect management: Improving patient outcomes. Grand Rounds, Department of Psychiatry, University Physicians Hospital at Kino, Tucson, AZ. October 25, 2007.
722. Does one size fit all? Customizing antipsychotic selection and dose to patient profile. Neuroscience Education Institute Academy. Chicago, IL. October 27, 2007.
723. Managing chronic depression: Treating to remission. Grand Rounds. Henry Ford Health System, Detroit, MI. November 1, 2007.
724. What's up and coming in psychopharmacology? Baylor College of Medicine 2007 Psychopharmacology Update. Houston, TX. November 2, 2007.
725. The neurobiology of child abuse: treatment implications. Grand Rounds. Department of Psychiatry, Cornell University Medical College, Payne Whitney Manhattan Campus, New York, NY. November 14, 2007.
726. The biological impact of early trauma. XI International Symposium, Chilean College of Neuropsychopharmacology. Santiago, Chile. November 23, 2007.
727. Neurobiological basis of major depression. XI International Symposium, Chilean College of Neuropsychopharmacology. Santiago, Chile. November 23, 2007.

728. Early Life Trauma, the Pathophysiology of Depression and Risk for Cardiovascular Disease. American College of Neuropsychopharmacology, 46<sup>th</sup> Annual Meeting. Boca Raton, Florida. December 12, 2007.
729. Antipsychotic dosing and side-effect management: Improving patient outcomes. Grand Rounds, Department of Psychiatry, Walter Reed Army Medical Center, Washington, D.C., December 19, 2007.
730. Neurobiology of depression: bringing the latest in science to clinicians. Puerto Rican College of Neuropsychopharmacology. San Juan, Puerto Rico. January 31, 2008.
731. The neurobiology of child abuse: pathophysiology and treatment implications. Grand Rounds, Department of Psychiatry, Stanford University School of Medicine, Stanford, CA. February 7, 2008.
732. Neuropharmacological basis for novel strategies in the treatment of refractory depression. Nevada Psychiatric Association 13<sup>th</sup> Annual Psychopharmacology Update. Las Vegas, NV. February 21, 2008
733. Non-peptide ligands acting at CRF receptors as novel anxiolytics or antidepressants. International Society for Affective Disorders (ISAD) 4<sup>th</sup> Biennial Conference. March 16, 2008. Cape Town, South Africa.
734. Neurobiology. PTSD Consensus Conference. March 19, 2008. Cape Town, South Africa.
735. Heartache and Heartbreak: The Remarkable Relationship Between Depression and Cardiovascular Disease. Grand Rounds, Department of Psychiatry. Dartmouth University School of Medicine. Hanover, NH. April 8, 2008.
736. The Neurobiology of Child Abuse and Neglect: Implications for the Treatment of Mood and Anxiety Disorders. 2008 George Ham Symposium for Psychiatry, University of North Carolina School of Medicine, Chapel Hill, NC. April 12, 2008.
737. The Neurobiology of Child Abuse: Implications for Pathophysiology and Treatment of Depression. 18<sup>th</sup> Annual Neuroscience Day, Louisville Chapter, Society for Neuroscience. Grass Lecture Speaker. Louisville, KY. April 17, 2008.
738. Psychopharmacology in the 21<sup>st</sup> Century. 18<sup>th</sup> Annual Neuroscience Day, Louisville Chapter, Society for Neuroscience. Grass Lecture Speaker, Louisville, KY. April 17, 2008.
739. The Neurobiology of Child Abuse and Neglect – Implications for the Prevention and Treatment of Depression and Anxiety Disorders. 2008 Research Day and Van Liere Convocation. West Virginia University Health Sciences Center. Morgantown, WV. April 23, 2008.
740. The Neurobiology of Child Abuse: Treatment Implications. Harold J. Lawn Endowed Lecture. Department of Psychiatry, University of Minnesota Medical School. April 30, 2008.
741. Addressing Unmet Needs in Severe Depression. 2008 Annual Meeting American Psychiatric Association, Washington, DC, May 3, 2008.

742. Persistent CSF Oxytocin Reduction After Childhood Abuse. 2008 Annual Meeting American Psychiatric Association, Washington, DC, May 3, 2008.
743. Depression and Generalized Anxiety: Research Planning For The DSM-V. 2008 Annual Meeting American Psychiatric Association, Washington, DC, May 3, 2008.
744. Review of Advances in Depression. FOCUS. 2008 Annual Meeting American Psychiatric Association, Washington, DC, May 3, 2008.
745. The Myth of the Med Check in Psychopharmacology. 2008 Annual Meeting American Psychiatric Association, Washington, DC, May 3, 2008.
746. The role of Corticotropin-Releasing Factor (CRF) and the HPA Axis in the pathophysiology of depression. CINP 50<sup>th</sup> Annual Meeting, Munich, Germany, July 14, 2008.
747. CRF, the neurobiology of depression and early life trauma: Implications for diagnosis and treatment. CINP 50<sup>th</sup> Annual Meeting, Munich, Germany, July 14, 2008.
748. The interaction of serotonin transporter gene polymorphism and early life stress on vulnerability to depression: pathophysiology and therapeutic perspective. CINP 50<sup>th</sup> Annual Meeting, Munich, Germany, July 16, 2008.
749. Chairman and participant, The role of Corticotropin-Releasing Factor (CRF) and the HPA Axis in the pathophysiology of depression. CINP 50th Annual Meeting, Munich, Germany, July 14, 2008.
750. Co-chairman and participant, Stress sensitization in spontaneous recurrence of methamphetamine psychosis, schizophrenia and depression. CINP 50<sup>th</sup> Annual Meeting, Munich, Germany, July 15, 2008.
751. Pharmacology of antipsychotics: Implications for the therapeutic mechanism of action and clinical effects. CINP 50th Annual Meeting, Munich, Germany, July 14, 2008.
752. Damned If You Do....Damned If You Don't. The Chair's challenge in achieving balance in managing conflict of interest. American Association of Chairs of Departments of Psychiatry (AACDP) Summer Retreat, Lake Oconee, Georgia, July 26, 2008.
751. Chairman: Severe Depression: How to Diagnose and Treat? Lundbeck Satellite Symposium, Barcelona, Spain, August 31, 2008. S599, C.11.02.
753. The Neurobiology of child abuse: Treatment Implications. Grand Rounds, Department of Psychiatry , Baylor College of Medicine, Houston, Texas, January 28, 2009.
754. Towards Recovery Goal: Future Horizons in Depression Treatment. Colburn School for Performing Arts, Los Angeles, California, February 7, 2009.
755. Debate: Should Psychiatry and Neurology be Integrated into the Single Specialty of Neuropsychiatry? ACP Annual Meeting, Tucson, Arizona, February 25, 2009.
756. The Neurobiology of Child Abuse: Treatment Implications. Grand Rounds, Department of Psychiatry, Medical University of South Carolina, Charleston, SC, March 13, 2009.

- 757. Psychopharmacology in the 21<sup>st</sup> Century. Carter XII Symposium, Bogota, Columbia, March 20, 2009.
- 758. The Neurobiology of Child Abuse: Implications for the Treatment of Mood and Anxiety Disorders, Carter XII Symposium, Bogota, Columbia, March 20, 2009.
- 759. Treatment of refractory depression, Carter XII Symposium, Bogota, Columbia, March 21, 2009.
- 760. Bipolar disorder and schizophrenia: a critical view of their differences, Carter XII Symposium, Bogota, Columbia, March 21, 2009.
- 761. The relationship between cardiovascular disease and depression, Carter XII Symposium, Bogota, Columbia, March 21, 2009.
- 762. Invited participant, Early life trauma in major depression: A distinct endophenotype, Cold Springs Harbor Laboratory-Banbury Center, Cold Springs Harbor, New York, March 23, 2009.
- 763. Rational Neuropsychopharmacology of treatment-refractory depression, WPA International Congress Treatments in Psychiatry: a new update, Florence, Italy, April 1, 2009.
- 764. Depression and inflammation: research evidence and clinical implications, WPA International Congress Treatments in Psychiatry: a new update, Florence, Italy, April 1, 2009.
- 765. Heartache and Heartbreak, American Academy of Psychoanalysis & Dynamic Psychiatry, San Francisco, CA, May 14, 2009.
- 766. Psychopharmacology in the 21<sup>st</sup> Century: Towards Personalized Medicine in Psychiatry. Hellenic American Psychiatric Association, San Francisco, CA, May 19, 2009.
- 767. Matters of the Heart: Depression and Cardiovascular Disease, American Psychiatric Association Presidential Symposium, San Francisco, CA, May 21, 2009.
- 768. Recent developments in the aetiopathogenesis of depression. 7<sup>th</sup> National Congress of the Turkish Society of Biological Psychiatry, Edirne, Turkey, June 4, 2009.
- 769. Recent developments in the management of treatment-resistant major depression and anxiety. 7<sup>th</sup> National Congress of the Turkish Society of Biological Psychiatry, Edirne, Turkey, June 4, 2009.
- 770. The Neurobiological Consequences of Early Life Stress and Trauma, Argentina Trauma Society, Buenos Aires, Argentina, June 24, 2009.
- 771. The Neurobiology and Psychopharmacological Treatment of Anxiety Disorders, Argentina Trauma Society, Buenos Aires, Argentina, June 25, 2009.
- 772. The Neurobiology of Mood Disorders and Mixed Depression/Anxiety, Argentina Trauma Society, Buenos Aires, Argentina, June 26, 2009.
- 773. The Neurobiology of GAD compared to Depression: Similarities and Differences. Argentina Trauma Society, Buenos Aires, Argentina, June 26, 2009.

774. Psychopharmacology in the 21<sup>st</sup> Century, Argentina Trauma Society, Buenos Aires, Argentina, June 26, 2009.
775. Heartache & Heartbreak, Masters Program in Affective Neuroscience, Florence, Italy, July 6, 2009.
776. Chairman, Session on Affective Disorders, Persistent Neurobiological Consequences of Child Abuse and Neglect: Implications for Pathogenesis and Treatment of Mood and Anxiety Disorders, Early Life Programming & Neurodevelopmental Disorders, University of Pennsylvania, Philadelphia, PA, July 28, 2009.
777. Indo-US Bilateral Conference on Translational Neuroscience: New Trends in Mental and Neurodegenerative Disorders Research, Chicago, IL, October 15, 2009.
778. The Role of corticotrophin-releasing factor circuits in the pathology of depression: Implications for CRF receptor antagonists as novel antidepressants. Neuropeptides Conference, Chicago, IL, October 16, 2009.
779. Early Life Stress, Genetic Polymorphisms and Vulnerability to Depression, First International Meeting on Personalized Medicine in Psychiatry, Mayflower Action Group, Washington, DC, October 24, 2009.
780. High Impact Outcomes from BRAINnet. First International Meeting on Personalized Medicine in Psychiatry, Mayflower Action Group, Washington, DC, October 25, 2009.
781. Depression and Inflammation: Implications for Depression as a Risk Factor for Medical Co-morbidity. Third Annual International Brain Conference, Orlando, FL, December 5, 2009.
782. Depression and Inflammation: Implications for Depression as a Risk Factor for Medical Co-morbidity. Grand Rounds, Department of Psychiatry, Ohio State University, Columbus, OH, January 20, 2010.
783. The Neurobiology of Child Abuse: Treatment Implications. Grand Rounds, Department of Psychiatry, University of Illinois/Chicago, Chicago, Illinois, February 17, 2010.
784. Complex Clinical Psychopharmacology: A Case-Based Approach. American College of Psychiatrists Annual Meeting, Fort Lauderdale, Florida, February 23, 2010.
785. The Neurobiology of Child Abuse: Treatment Implications. Grand Rounds, Department of Psychiatry, Tufts University, Boston, Massachusetts, March 22, 2010.
786. HPA Axis in Mood Disorders. 2010 Master Class Institute of Mental Health, University of British Columbia, Vancouver, Canada, April 15, 2010.
787. Neurobiology of Depression. Psychopharmacology 2010: A Master Class, Massachusetts Mental Health Center, Harvard Medical School, Boston, Massachusetts, April 23, 2010.
788. Neurobiology of Child Abuse and Neglect: Implications for Treatment of Mood and Anxiety Disorders. Florida Psychiatric Society Spring CME Meeting, Tampa, Florida, May 1, 2010.
789. Mental Health Transformation in Action Conference Awards Ceremony and Luncheon for Consumers, Law Enforcement and Community Partners. Keynote Speaker, University of

Miami Behavioral Health, a program of the Department of Psychiatry and Behavioral Sciences, Miami, Florida, May 13, 2010.

790. The Neurobiology of Child Abuse: Treatment Implications. Grand Rounds, Department of Psychiatry and Behavioral Sciences, Leonard M. Miller School of Medicine, University of Miami, Miami, Florida, May 19, 2010.
791. Neurobiological Predictors of Treatment Response in Major Depression. Advances in the Management of Treatment-Resistant Depression, American Psychiatric Association Annual Meeting, New Orleans, Louisiana, May 22, 2010.
792. The Rage to Know. Making it in Research through Good and Bad Funding Times, Research Colloquium for Junior Investigators, American Psychiatric Association Annual Meeting, New Orleans, Louisiana, May 23, 2010.
793. Management of Bipolar Disorder: Problems and Promises, Georgia Psychiatric Physicians Association Summer CME Meeting, Ponte Vedra Beach, Florida, August 6, 2010.
794. Neurobiological Predictors of Treatment Response in Major Depression: Moving Toward Personalized Medicine in Psychiatry, Georgia Psychiatric Physicians Association Summer CME Meeting, Ponte Vedra Beach, Florida, August 7, 2010.
795. Discussant, Bipolar Disorder Across the Life Span: A Case of Bipolar Disorder in Later Life, Georgia Psychiatric Physicians Association Summer CME Meeting, Ponte Vedra Beach, Florida, August 7, 2010.
796. Clinical Case Challenge: A Medical Student's Suicide Attempt, 3<sup>rd</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Chicago, Illinois, August 26, 2010.
797. Heartache and Heartbreak: The Relationship Between Depression and Heart Disease, 3<sup>rd</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Chicago, Illinois, August 27, 2010.
798. Long-Term Consequences of Child Abuse, 3<sup>rd</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Chicago, Illinois, August 27, 2010.
799. Treatment-Resistant Depression, 3<sup>rd</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Chicago, Illinois, August 28, 2010.
800. Clinical Case Challenge: 22-Year-Old, Hispanic, Female Patient Returning from Afghanistan, 3<sup>rd</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Chicago, Illinois, August 28, 2010.
801. Neurobiology of Child Abuse: Treatment Implications. Grand Rounds, Department of Psychiatry, University of Florida School of Medicine, Gainesville, Florida, September 24, 2010.
802. Neurobiology of Child Abuse: Treatment Implications. First International Conference of Psychiatry, Mental Health in a Socio-cultural Perspective, Al-Khobar, Kingdom of Saudi Arabia, October 5, 2010.

803. Progress in Suicide Prevention: State of Science. Grand Rounds, Ohio State University, Department of Psychiatry, Columbus, Ohio, October 27, 2010.
804. The Neurobiology of Child Abuse. Grand Rounds, Department of Psychiatry, University of Wisconsin, Madison, Wisconsin, November 12, 2010.
805. Has Drug Development in Psychiatry Hit a Road Block? An RFP Pro Con Panel. American College of Neuropsychopharmacology, 49<sup>th</sup> Annual Meeting. Miami Beach, Florida, December 6, 2010.
806. Heartache and Heartbreak: The Remarkable Relationship between Depression and Heart Disease. Grand Rounds, Department of Psychiatry and Behavioral Sciences, Leonard M. Miller School of Medicine, University of Miami, Miami, Florida, February 2, 2011.
807. The Neurobiology of Child Abuse: Treatment Implications. Grand Rounds, Department of Psychiatry and Neurosciences, University of South Florida, Tampa, Florida, February 3, 2011.
808. Progress in Suicide Prevention: State of the Science. Jewish Ethics in Medicine and Sciences Program, Jewish Chabad Center, Fort Lauderdale, Florida, February 10, 2011.
809. Heartache and Heartbreak. Advances in Psychosomatic Medicine VI. Cardiovascular Diseases and Diabetes: Socio-Emotional Perspective, San Juan, Puerto Rico, February 12, 2011.
810. Depresión and Inflamación. XIII Simposio Internacional de Actualizaciones en Psiquiatría, Bogotá, Colombia, March 8, 2011.
811. Neurobiological Predictors of Treatment Response in MDD. XIII Simposio Internacional de Actualizaciones en Psiquiatría, Bogotá, Colombia, March 8, 2011.
812. Management of Treatment Resistant Depression. American Physician Institute for Advanced Professional Studies. The 2nd Annual 2011 Master Psychopharmacology Course. Las Vegas, Nevada, March 12, 2011.
813. The Relationship of Depression and Heart Disease. American Physician Institute for Advanced Professional Studies. The 2nd Annual 2011 Master Psychopharmacology Course. Las Vegas, Nevada, March 12, 2011
814. Biological Predictors of Posttraumatic Stress Disorder (PTSD) Vulnerability and Response to Treatment: Problems and Promises. 31<sup>st</sup> Annual Conference Anxiety Disorders Association of America, Anxiety and Related Disorders: Efficacy, Effectiveness, and Dissemination. New Orleans, Louisiana, March 25, 2011.
815. Early childhood adverse experiences have the potential to cause cognitive deficits. 13th International Congress on Schizophrenia Research, Colorado Springs, Colorado, April 2, 2011.
816. Was Kraepelin misguided about the absolute distinction between Schizophrenia and Bipolar Disorder? Overview, epidemiology, clinical course and response to treatment. 13th International Congress on Schizophrenia Research, Colorado Springs, Colorado, April 3, 2011.
817. Neurobiology of Depression: Therapeutic Implications. Harvard Medical School, Psychopharmacology 2011: A Master Class, Boston Massachusetts, April 29, 2011.

818. The Neurobiology of Child Abuse: Treatment Implications. The Florida Psychoanalytic Society, Scientific Meetings 2010-2011, Coral Gables, Florida, April 30, 2011.
819. Psychopharmacology: Treatment Resistant Disorders. FOCUS Live. American Psychiatric Association, 164<sup>th</sup> Annual Meeting, Honolulu, Hawaii. May 16, 2011.
820. The Myth of the Med Check: Psychodynamics and Psychopharmacology. Innovative uses of Psychodynamic Psychiatry across the Life Cycle Symposium. American Psychiatric Association, 164<sup>th</sup> Annual Meeting, Honolulu, Hawaii. May 17, 2011.
821. Neurobiology of Depression: Therapeutic Implications. Predictors of Disease Vulnerability and Treatment Response: Personalized Medicine in Psychiatry Symposium. American Psychiatric Association, 164<sup>th</sup> Annual Meeting, Honolulu, Hawaii. May 18, 2011.
822. Neurobiological Predictors of Treatment Response in Major Depression. APREBA - 8<sup>th</sup> Anual Asociación de Psiquiatras de Bayamón Scientific Meeting Psychopharmacology 2011. Isla Verde, Puerto Rico, June 4, 2011.
823. Depression and Inflammation, 4<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Annapolis, Maryland, June 24, 2011.
824. Early Childhood Trauma, 4<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Annapolis, Maryland, June 25, 2011.
825. The Neurobiology of Child Abuse: Treatment Implications. Grand Rounds, Department of Psychiatry and Behavioral Sciences, Leonard M. Miller School of Medicine, University of Miami, Miami, Florida, June 29, 2011.
826. The Neurobiology of Child Abuse: Treatment Implications. 3<sup>rd</sup> World Congress of Asian Psychiatry, Melbourne, Australia, August 3, 2011.
827. Deficits in Motivation in Mood and Anxiety Disorders: Pathophysiological Subtypes, Personalized Medicine and Opportunities for Drug Development. Human motivation and its disorders – A target for psychopharmacology? Paris, France, August 31, 2011.
828. Personalized medicine and the risk of suicide: problems and promises. World Psychiatric Association 15<sup>th</sup> World Congress of Psychiatry. Buenos Aires, Argentina, September 19, 2011.
829. Heartache and heartbreak: the curious relationship between depression and heart disease. World Psychiatric Association 15<sup>th</sup> World Congress of Psychiatry. Buenos Aires, Argentina, September 20, 2011.
830. Consequences of early childhood trauma. World Psychiatric Association 15<sup>th</sup> World Congress of Psychiatry. Buenos Aires, Argentina, September 20, 2011.
831. The effect of early life trauma on the corticotrophin-releasing factor circuits: implications for the pathophysiology and treatment of mood and anxiety disorder. World Psychiatric Association 15<sup>th</sup> World Congress of Psychiatry. Buenos Aires, Argentina, September 21, 2011.

832. The neurobiology of child abuse and neglect: impact on the pathophysiology and treatment of mood disorders. World Psychiatric Association 15<sup>th</sup> World Congress of Psychiatry. Buenos Aires, Argentina, September 22, 2011.
833. Clinical Depression and Bipolar Disorder: State-of-the-Art. The National Alliance on Mental Illness (NAMI) - What's New in Mental Health Research and Treatment. Miami, Florida, October 1, 2011.
834. Treatment of Bipolar Depression. American Physician Institute for Advanced Professional Studies, 2011 Adult Master Psychopharmacology Course. San Diego, California, October 14, 2011.
835. Treating Depression in Patients with Cardiovascular Disease. American Physician Institute for Advanced Professional Studies, 2011 Adult Master Psychopharmacology Course. San Diego, California, October 14, 2011.
836. Depression and Inflammation. 41st Institute of Medicine Annual Meeting. Arlington, Virginia, October 16, 2011.
837. Quantifying the Impact of MDD and TRD on Patient Outcomes. Academy of Managed Care Pharmacy (AMCP), 2011 Educational Conference, Atlanta, Georgia, October 20, 2011.
838. Benefits and Limitations of Available Antidepressant Pharmacotherapy and the Factors involved in Second- and Third-Line Decision-Making. Academy of Managed Care Pharmacy (AMCP), 2011 Educational Conference, Atlanta, Georgia, October 20, 2011.
839. Progress in Suicide Prevention: State of the Science. 13<sup>th</sup> Annual International Conference American Foundation for Suicide Prevention Survivors of Suicide Day, Boca Raton, Florida, November 19, 2011.
840. Psychopharmacology in the 21<sup>st</sup> century. New Horizons in the Treatment of Major Depressive Disorder. Dammam, Saudi Arabia, November 23, 2011.
841. Neurobiological predictors of treatment response in major depression. New Horizons in the Treatment of Major Depressive Disorder. Dammam, Saudi Arabia, November 23, 2011.
842. Psychopharmacology in the 21<sup>st</sup> century. New Horizons in the Treatment of Major Depressive Disorder. Riyadh, Saudi Arabia, November 24, 2011.
843. Neurobiological predictors of treatment response in major depression. New Horizons in the Treatment of Major Depressive Disorder. Riyadh, Saudi Arabia, November 24, 2011.
844. Psychopharmacology in the 21<sup>st</sup> century. New Horizons in the Treatment of Major Depressive Disorder. Jeddah, Saudi Arabia, November 25, 2011.
845. Neurobiological predictors of treatment response in major depression. New Horizons in the Treatment of Major Depressive Disorder. Jeddah, Saudi Arabia, November 25, 2011.
846. PTSD Biomarkers Study Group. American College of Neuropsychopharmacology, 50th Annual Meeting, Waikoloa, Hawaii, December 5, 2011.

847. Neurobiology of Gene-Environment Interactions in Medicating Child Abuse Associated Risk for Mood and Anxiety Disorders. American College of Neuropsychopharmacology, 50th Annual Meeting, Waikoloa, Hawaii, December 7, 2011.
848. The Neurobiology of Child Abuse: Treatment Implications. Grand Rounds, Department of Psychiatry and Behavioral Sciences, New York University, New York. January 12, 2012.
849. Current Trends in the Treatment of Depression. Miami CME Winter Series. Department of Neurology, University of Miami Miller School of Medicine, Miami, Florida. January 27, 2012.
850. The Neurobiology of Child Abuse: Treatment Implications. Discovery of Science Grand Rounds, University of Miami Miller School of Medicine, Miami, Florida. February 9, 2012.
851. Depression is a Brain Disease. Mental Health and Addictions Disorders Science Summit. Tallahassee, Florida. February 15, 2012.
852. Recent Advances in the Management of Treatment Resistant Depression. 40th Anniversary Psychopharmacology Update, Las Vegas Psychiatric Society. Las Vegas, Nevada. February 17, 2012.
853. Neurobiological Consequences of Child Abuse and Neglect. College of Mathematics, Natural Sciences and Technology (CMNST), Guest Speaker – Dean’s Distinguished Lecturer Series, Delaware State University, Dover, Delaware. February 28, 2012.
854. Recognition and Treatment of Depression: Reducing Suicide and Misery in Difficult Times. College of Mathematics, Natural Sciences and Technology (CMNST), Guest Speaker – Dean’s Distinguished Lecturer Series, Delaware State University, Dover, Delaware. February 28, 2012.
855. Cancer and Depression: Mechanisms of Disease Progression and Susceptibility. The Metastatic Novel Opportunities for Breast Cancer Therapy. Expedition Inspiration 16<sup>th</sup> Annual Laura Evans Memorial Breast Cancer Symposium. Sun Valley, Idaho. March 8, 2012.
856. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. 5<sup>th</sup> Biennial Conference of the International Society for Bipolar Disorders. Istanbul, Turkey. March 16, 2012.
857. Implications of Child Abuse and Neglect for the Pathophysiology of PTSD and Related Disorders. 32<sup>nd</sup> ADAA Annual Conference, Arlington, Virginia. April 13, 2012.
858. The Relationship of Mood and Anxiety Disorders to Cardiovascular Disease. 32<sup>nd</sup> ADAA Annual Conference, Arlington, Virginia. April 13, 2012.
859. The Interface of Anxiety Disorders and Medical Disorders: Pathophysiology and Treatment Implications. 32<sup>nd</sup> ADAA Annual Conference, Arlington, Virginia. April 13, 2012.
860. A Difficult Depression Case. Florida Psychiatric Society 2012 Meeting, Clinical Neuroscience and Clinical Practice. Orlando, Florida. April 15, 2012.

861. The Neurobiology of Child Abuse and Neglect: Impact on the Pathophysiology and Treatment of Mood Disorders. American Psychiatric Association, 165<sup>th</sup> Annual Meeting, Philadelphia, Pennsylvania. May 6, 2012.
862. Identification of Genetic Polymorphisms that Mediate the Increased Vulnerability to Mood Disorders after Exposure to Child Abuse and Neglect. American Psychiatric Association, 165<sup>th</sup> Annual Meeting, Philadelphia, Pennsylvania. May 9, 2012.
863. Neurobiology of Bipolar Disorders. World Psychiatric Association Educational Seminar on Bipolar Disorders, Lima Peru. May 17, 2012.
864. Pharmacological Treatments of Bipolar Disorders. World Psychiatric Association Educational Seminar on Bipolar Disorders, Lima Peru. May 17, 2012.
865. The Neurobiology of Child Abuse: Treatment Implications. Medical University of South Carolina (MUSC), Charleston, South Carolina. May 24, 2012.
866. Invited participant, CINP workshop, There is a Future in Psychotherapeutic Drug Development: Perspectives from Industry and Academia, Stockholm, Sweden. June 3, 2012.
867. Personalized Medicine and the Management of Treatment Resistant Depression. 28<sup>th</sup> CINP World Congress of Neuropsychopharmacology, Stockholm, Sweden. June 4, 2012.
868. Recognition and Treatment of Depression: Reducing Suicide and Misery in Difficult Times. Florida Partners in Crisis Justice Institute Annual Conference. Orlando, Florida, July 11, 2012.
869. Mental Illness: A Treatable Brain Disease. Florida Partners in Crisis Justice Institute Annual Conference. Orlando, Florida, July 12, 2012.
870. The Neurobiology of Child Abuse: Treatment Implications. International Society of Psychoneuroendocrinology 42<sup>nd</sup> Annual Conference. New York, New York, September 13, 2012.
871. The Roadblock in Drug Development in Clinical Neuroscience. 2<sup>nd</sup> CNS Diseases World Summit. San Francisco, California, September 14, 2012.
872. Neurobiología de los Trastornos Afективos: Implicaciones para la Medicina Personalizada. (Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry). 1<sup>er</sup> Congreso del Capítulo Venezolano de la Sociedad Internacional de Trastornos Bipolares (ISBD). Caracas, Venezuela, September 22, 2012.
873. Personalized Medicine in Psychiatry. Dorothy Chapman Fuqua Lecture Series at Skyland Trail. Atlanta, Georgia, October 5, 2012.
874. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. Psychoneuroendocrinology in the 21<sup>st</sup> Century. Milano, Italy, October 10, 2012.
875. Alzheimer's Disease: A Maintenance of Certification Session. 5<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Orlando, Florida, October 12, 2012.

876. Personalized Medicine in Psychiatry: A Look to the Future. 5<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Orlando, Florida, October 12, 2012.
877. Depression and Inflammation: The Interplay with Autoimmune Diseases. 5<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Orlando, Florida, October 12, 2012.
878. Treatment Resistant Depression with Comorbid Anxiety Disorder. 5<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Orlando, Florida, October 12, 2012.
879. Neurobiological Consequences of Child Abuse and Neglect: Implications for the Pathophysiology and Treatment of Mood and Anxiety Disorders. World Psychiatric Association International Congress 2012. Prague, Czech Republic, October 18, 2012.
880. Women's Mental Health: How to Avoid Becoming a Cranky Old Person? National Association of Women Judges' 34<sup>th</sup> Annual Conference. Miami Florida, November 9, 2012.
881. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. Advances in Psychiatry. Riyadh, Saudi Arabia, November 15, 2012.
882. Management of Bipolar Disorder: Problems and Promises. Advances in Psychiatry. Riyadh, Saudi Arabia, November 15, 2012.
883. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. Advances in Psychiatry. Jeddah, Saudi Arabia, November 16, 2012.
884. Management of Bipolar Disorder: Problems and Promises. Jeddah, Saudi Arabia, November 16, 2012.
885. Management of Bipolar Disorder: Problems and Promises. Advances in Psychiatry. Cairo, Egypt, November 17, 2012.
886. The Role of Corticotropin-Releasing Factor (CRF) in the Pathophysiology of Mood and Anxiety Disorders: A Tribute to Wylie Vale. American College of Neuropsychopharmacology, 51<sup>st</sup> Annual Meeting, Hollywood, Florida, December 3, 2012.
887. Depression, personality and cardiovascular disease. 5<sup>th</sup> International Cardio Event: Cardiology towards the future System Medicine. Florence, Italy, January 18, 2013.
888. Biology of Depression – Recent Advances in the Neurobiology of Major Depressive Disorder. Miami CME Winter Series: Neurology Update and Stroke Intensive 2013. Miami, Florida, January 25, 2013.
889. The Relationship of Bipolar Disorder and Schizophrenia: Are the Same Disorders on a Continuum? Nevada Psychiatric Association 18<sup>th</sup> Annual Psychopharmacology Update, Las Vegas, Nevada, February 14, 2013.
890. Neurobiology and Treatment of Post-Traumatic Stress Disorder. Nevada Psychiatric Association 18<sup>th</sup> Annual Psychopharmacology Update, Las Vegas, Nevada, February 15, 2013.

891. Psychopharmacology: Current Capability and Future Promise. The American College of Psychiatrists 2013 Annual Meeting. Kauai, Hawaii, February 22, 2013.
892. Long-term Course of Bipolar I and Bipolar II: Findings from the NIMH Collaborative Depression Study and Implications for Treatment. The American College of Psychiatrists 2013 Annual Meeting. Kauai, Hawaii, February 23, 2013.
893. Neurobiological Consequences of Child Abuse. 2<sup>nd</sup> Herrenhausen Conference on Mental Health. Hanover, Germany, April 4, 2013.
894. Heartache and Heartbreak: The Curious Relationship Between Depression and Cardiovascular Disorders. WPA 2013 Bucharest Congress. Bucharest, Romania, April 11, 2013.
895. Depression and Cardiovascular Disorders in Primary Care. WPA 2013 Bucharest Congress. Bucharest, Romania, April 11, 2013.
896. The Neurobiology and Treatment of Mood Disorders: Moving Towards Personalized Medicine in Psychiatry. Harvard Medical School, Psychopharmacology, 2013: A Master Class. Boston, Massachusetts, April 19, 2013.
897. Neurobiology of Bipolar Disorders. 2das Jornadas Educacionales de la WPA, Panama City, Panama. May 2, 2013.
898. Management of Bipolar Disorders. 2das Jornadas Educacionales de la WPA, Panama City, Panama. May 2, 2013.
899. The Neurobiology of Child Abuse: Treatment Implications. Grand Rounds, Boonshoft School of Medicine (BSOM), Wright State University Department of Psychiatry. Dayton, Ohio, May 28, 2013.
900. Grantsmanship 101. The Lieber Institute for Brain Development. Baltimore, Maryland, June 7, 2013.
901. Are Schizophrenia and Bipolar Disorder Separate Disorders or on a Continuum: Insights from Personalized Medicine. 10<sup>th</sup> International Conference on Bipolar Disorders. Miami Beach, Florida, June 14, 2013.
902. The Neurobiology of Child Abuse: Treatment Implications. Inaugural Lecture Center for Affective Disorders Institute of Psychiatry, King's College, London. June 17, 2013.
903. Management of Bipolar Disorder: Problems and Promises. Primer Seminario Educacional de WPA, "Las Necesidades de Salud Mental en Centroamérica". Managua, Nicaragua. July 20, 2013.
904. Neurobiological Consequences of Child Abuse. XX Congreso Nacional de Prevencion y Atencion del Maltrato Infantil (unicef) Bogota, Colombia. August 14, 2013.
905. Neurobiological Consequences of Child Abuse. SASOP Biological Psychiatry Congress 2013. Wild Coast Sun, Port Edward, South Africa. August 30, 2013.
906. Stress and Mental Illness: From Genomics to Imaging. Neuroscience School of Advanced Studies. Cortona, Italy. September 1, 2013.

907. The Neurobiology of Child Abuse. Grand Rounds, The University of New Mexico, Health Sciences Center, School of Medicine. Albuquerque, New Mexico. September 17, 2013.
908. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. North Carolina Psychiatric Association 2013 Annual Meeting and Scientific Session. Ashville, North Carolina. September 22, 2013.
909. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. 6<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Tampa, Florida, September 26, 2013.
910. Depression and Inflammation. 6<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Tampa, Florida, September 27, 2013.
911. Point-Counterpoint: Clinical Conundrums in Depression Management. 6<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Tampa, Florida, September 27, 2013.
912. El Tratamiento Farmacológico de la Depresión Bipolar. LII Congreso Colombiano de Psiquiatría. Cartagena de Indias, Colombia, October 12, 2013.
913. Personalized Medicine in Psychiatry: Problems and Promises. LII Congreso Colombiano de Psiquiatría. Cartagena de Indias, Colombia, October 12, 2013.
914. La Inflamación y los Trastornos del Estado de Animo: Citoquinas Proinflamatorias y la Patogenia de la Depresión. LII Congreso Colombiano de Psiquiatría. Cartagena de Indias, Colombia, October 12, 2013.
915. The Role of Early Life Trauma in Depression Vulnerability and Treatment Response. World Psychiatric Association International Congress 2013. Vienna, Austria, October 29, 2013.
916. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. World Psychiatric Association International Congress 2013. Vienna, Austria, October 29, 2013.
917. When the Immune System Subjugates as a Common Pathway for Depression, Anxiety, Pain and Sleep Disorder. Puerto Rico Academy of Psychiatry Annual Meeting: Brain, Body and Mind. Isla Verde, Puerto Rico, November 2, 2013.
918. Treating the Whole Patient with Schizophrenia and Bipolar Disorders: What are the Implications? Puerto Rico Academy of Psychiatry Annual Meeting: Brain, Body and Mind. Isla Verde, Puerto Rico, November 2, 2013.
919. The Neurobiology of Child Abuse and Neglect: Implications for the Pathogenesis and Treatment of Mood and Anxiety Disorders. Grand Rounds, Georgia Regents University School of Medicine Department of Psychiatry and Health Behavior. Augusta, Georgia, November 14, 2013.
920. The Role of Inflammation in the Pathophysiology of Mood, Aggressive and Medical Disorders: a Deadly Combination. American College of Neuropsychopharmacology, 52<sup>nd</sup> Annual Meeting, Hollywood, Florida, December 9, 2013.

921. The Pervasive and Persistent Neurobiological Consequences of Child Abuse and Neglect; Clinical Implications . American College of Neuropsychopharmacology, 52<sup>nd</sup> Annual Meeting, Hollywood, Florida, December 12, 2013.
922. The Neurobiology of Child Abuse and Neglect: Implications for the Pathogenesis and Treatment of Mood and Anxiety Disorders. Wayne State University Grand Rounds, Detroit, Michigan, January 15, 2014.
923. The Neurobiology of Child Abuse and Neglect: Implications for the Pathogenesis and Treatment of Mood and Anxiety Disorders. University of Texas Southwestern Medical Center Grand Rounds, Dallas, Texas, February 12, 2014.
924. Suicide discussion. American College of Psychiatrists Interest Group, San Antonio, Texas, February 20, 2014.
925. Treatment Resistant Depression: Role of Inflammation, Current Strategies and Potential New Treatments. University of North Carolina Grand Rounds, Chapel Hill, North Carolina, February 26, 2014.
926. Neurobiology of Child Abuse. University of North Carolina Grand Rounds. Chapel Hill, North Carolina, February 26, 2014.
927. The Neurobiology of Child Abuse and Neglect: Implications for the Pathogenesis and Treatment of Mood and Anxiety Disorders. McGill University Grand Rounds, Montreal, Quebec, March 13, 2014.
928. Heartache and Heartbreak: Depression and Cardiovascular Disease. Qatar Clinical Neuroscience Conference, Doha, Qatar, March 16, 2014.
929. The Rage to Know, the Rage to Teach, the Rage to Treat. Anxiety and Depression Association of America, Chicago, Illinois, March 26, 2014.
930. Neurobiology Mediating Effects of Early Life Trauma on Depression Treatment. Anxiety and Depression Association of America, Chicago, Illinois, March 28, 2014.
931. Management of Treatment Refractory Depression. Anxiety and Depression Association of America, Chicago, Illinois, March 28, 2014.
932. Neurobiology and Treatment of Post-Traumatic Stress Disorder. Florida Psychiatric Society 2014 Spring Meeting, Orlando, Florida, March 30, 2014.
933. Neurobiology of Child Abuse and Neglect: Implications for the Pathogenesis and Treatment of Mood and Anxiety Disorders. University of Arkansas Grand Rounds, Little Rock, Arkansas. April 3, 2014.
934. Treatment Resistant Depression: Role of Inflammation, Current Strategies and Potential New Treatment. Psychopharmacology 2014: A Master Class, Harvard Medical School, Boston, Massachusetts. April 25, 2014.
935. Suicide Lecture. Master Course 5, Psychopharmacology, 167<sup>th</sup> APA Annual Meeting, New York, New York, May 6, 2014.

936. Working with the NIH. 69<sup>th</sup> Annual Meeting Society of Biological Psychiatry. New York, New York, May 9, 2014.
937. Influence of Maternal Glutamatergic Response on the Neurobiology of the Offspring. 69<sup>th</sup> Annual Meeting of the Society of Biological Psychiatry. New York, New York. May 10, 2014.
938. CSF Oxytocin (OT) in Maternal Stress: Influence on HPA Axis. 69<sup>th</sup> Annual Meeting of the Society of Biological Psychiatry. New York, New York. May 10, 2014.
939. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders; Personalized Medicine in Psychiatry. WPA Conference, Santiago, Chile. May 16, 2014.
940. Management of Bipolar Disorders: Problems and Promises. WPA Conference, Santiago, Chile. May 16, 2014.
941. Neurobiology of Child Abuse. Grand Rounds, University of Massachusetts Medical School, Boston, Massachusetts, June 12, 2014.
942. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. Case Western Reserve University School of Medicine, Cleveland, Ohio, June 20, 2014.
943. Treatment Resistant Depression. 29<sup>th</sup> CINP World Congress of Neuropsychopharmacology, Vancouver, Canada. June 23, 2014.
944. Personalized Medicine in Mood and Anxiety Disorders. 29<sup>th</sup> CINP World Congress of Neuropsychopharmacology, Vancouver, Canada. June 24, 2014.
945. Neurobiological Consequences of Child Abuse. 29<sup>th</sup> CINP World Congress of Neuropsychopharmacology, Vancouver, Canada. June 24, 2014.
946. Personalized Medicine in Mood and Anxiety Disorders. Grand Rounds, University of California, Davis, Sacramento, California. June 25, 2014.
947. Depression and Bipolar Disorder are Brain Diseases. Mental Health and Faith Community Partnership Steering Committee Meeting, Washington, DC, July 11, 2014.
948. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. Grand Rounds, University of Minnesota, Minneapolis, Minnesota. September 3, 2014.
949. Addressing Depression: Current and Emerging Treatment Options for Getting Our Patients to Remission. 7<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Tampa, Florida. September 11, 2014.
950. Clinical Conundrums in Depression Management. Chair Summit, Master Class for Neuroscience Professional Development , Tampa, Florida. September 12, 2014.
951. Welcome to the Ring: Bipolar Depression Faculty Debate. Chair Summit, Master Class for Neuroscience Professional Development , Tampa, Florida. September 12, 2014.

952. Wake up to Personalized Medicine. Chair Summit, Master Class for Neuroscience Professional Development , Tampa, Florida. September 13, 2014.
953. The Persistent and Pervasive Neurobiological Consequences of Child Abuse and Neglect: Treatment Implication. XVI World Congress of Psychiatry, World Psychiatric Association, Madrid, Spain. September 16, 2014.
954. Prediction of Disease, Vulnerability and Treatment Response in Mood Disorders, Personalized Medicine in Psychiatry. XVI World Congress of Psychiatry, World Psychiatric Association, Madrid, Spain. September 17, 2014.
955. Prediction of Disease Vulnerability. Neuroscience School of Advanced Studies. Cortona, Italy. October 5, 2014.
956. Obstacles in CNS Drug Development: Focus on Psychiatry. Neuroscience School of Advanced Studies. Cortona, Italy. October 5, 2014.
957. Neurobiology of Child Abuse and Neglect. Grand Rounds at Geisel School of Medicine at Dartmouth, Dartmouth College. Hanover, New Hampshire. October 21, 2014.
958. Neurobiology of Child Abuse and Neglect. German Association for Psychiatry, Psychotherapy and Psychosomatics. City Cube Berlin, Germany. November 26, 2014.
959. Heartache and Heartbreak. University of Miami Department of Cardiology Grand Rounds. Miami, Florida. December 12, 2014.
960. Post-traumatic Stress Disorder. Neurology Update and Stroke Intensive. University of Miami Miller School of Medicine Department of Neurology, Miami, Florida. January 22, 2015.
961. Human Trafficking: An Emerging Epidemic. University of Miami Miller School of Medicine Ethics Program, Miami, Florida. January 23, 2015.
962. Neurobiology of Child Abuse and Neglect. Grand Rounds at Stanford School of Medicine, Stanford, California. January 30, 2015.
963. Neurobiology of Child Abuse and Neglect. William K. Lecture Series, Laureate Institute for Brain Research, Tulsa, Oklahoma. February 3, 2015.
964. Neurobiology of Child Abuse and Neglect. Grand Rounds, University of Colorado Denver, Denver, Colorado. February 11, 2015.
965. Neurobiology and Treatment of Post-Traumatic Stress Disorder. Nevada Psychiatric Association, Las Vegas, Nevada. February 13, 2015.
966. The Rage to Know, the Rage to Teach, the Rage to Heal or Why we are all not on Wall Street. Keynote Awards Banquet Address, 41<sup>st</sup> Eastern-Atlantic Student Research Forum, February 28, 2015.
967. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. Doctorate Honoris Causa in Health Sciences Ceremony, Maimonides University, Northern Patagonia, Argentina. March 6, 2015.

968. The Rage to Know, the Rage to Heal, and the Rage to Teach: Progress in Science and Progress in Suicide Prevention. Argentinean Scientific Society, Buenos Aires, Argentina. March 7, 2015.
969. Improving Outcomes/Best Practices (Focus on Veterans and Trauma Victims). Prosecutors against Gun Violence, Miami, Florida. March 24, 2015.
970. The Rage to Know, the Rage to Heal, and the Rage to Teach: Success in Academia. ADAA Annual Conference, Miami, Florida. April 9, 2015.
971. Management of Treatment-Refractory Depression: The Art and the Science. ADAA Annual Conference, Miami, Florida. April 9, 2015.
972. Funding 101. ADAA Annual Conference, Miami, Florida. April 9, 2015.
973. Understanding Suicide Risk: What We Have Learned So Far. ADAA Annual Conference, Miami, Florida. April 10, 2015.
974. PTSD: Predicting its Development from Prospective Studies and Creating Early Interventions for its Prevention. ADAA Annual Conference, Miami, Florida. April 11, 2015.
975. Neurobiology of Child Abuse. Peruvian Psychiatric Association, National Institute of Mental Health, Lima, Peru. April 17, 2015.
976. Treatment Resistant Depression. Peruvian Psychiatric Association, National Institute of Mental Health, Lima, Peru. April 17, 2015.
977. Neurobiology and Treatment of PTSD. Psychopharmacology 2015: A Master Class. Boston, Massachusetts. April 24, 2015.
978. Diagnosis, Intervention and Pharmacological Advances. Stop the Stigma Conference – Nami of Miami: A Mental Health Summit. Miami, Florida. May 2, 2015.
979. Working with the NIH. 70<sup>th</sup> Annual Meeting of the Society of Biological Psychiatry. Toronto, Canada. May 14, 2015.
980. The Relationship Between ELS and PTSD Among ED Trauma Victims. 70<sup>th</sup> Annual Meeting of the Society of Biological Psychiatry. Toronto, Canada. May 14, 2015.
981. Child Abuse and Neglect Predict Disease Vulnerability and Treatment Response: Neurobiological Mechanisms. American Psychiatric Association 168<sup>th</sup> Annual Meeting, Toronto, Canada. May 16, 2015.
982. Why we all aren't on Wall Street – The Rage to Know... American Psychiatric Association 168<sup>th</sup> Annual Meeting, Toronto, Canada. May 17, 2015.
983. Paradise Lost: The Persistent Biological and Psychiatric Consequences of Child Abuse Neglect. American Psychiatric Association 168<sup>th</sup> Annual Meeting, Toronto, Canada. May 18, 2015.
984. Master Courses, Psychopharmacology. American Psychiatric Association 168<sup>th</sup> Annual Meeting, Toronto, Canada. May 19, 2015.

985. Management of Treatment-Resistant Depression: The Art and the Science. American Psychiatric Association 168<sup>th</sup> Annual Meeting, Toronto, Canada. May 19, 2015.
986. Neurobiology and Treatment of PTSD. American Psychiatric Association 168<sup>th</sup> Annual Meeting, Toronto, Canada. May 19, 2015.
987. The Neurobiology of Child Abuse and Neglect: Implications for the Pathophysiology and Treatment of Mood and Anxiety Disorders. Grand Rounds at University of Wisconsin. Madison, Wisconsin. May 29, 2015.
988. The Neurobiology of Child Abuse and Neglect. Laureate Institute for Brain Research – Frontiers in Neuroscience Conference. Tulsa, Oklahoma. June 2, 2015.
989. Toward a Personalized Treatment of Mental Disorders. Expo 2015 – Il Futuro della Salute Mentale. Milan, Italy. June 20, 2015.
990. Depression and Inflammation. American Society of Clinical Psychopharmacology Annual Meeting. Miami Beach, Florida. June 22, 2015.
991. Neurobiology of Child Abuse. Euro Global Summit and Medicare Expo on Psychiatry. Barcelona, Spain. July 21, 2015.
992. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. Euro Global Summit and Medicare Expo on Psychiatry. Barcelona, Spain. July 22, 2015.
993. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. ISPNE 2015 Conference. 2015 Lifetime Achievement Award. Edinburgh, Scotland. September 10, 2015.
994. Prediction of Disease Vulnerability and Treatment Response in Mood and Anxiety Disorders: Personalized Medicine in Psychiatry. Grand Rounds, University of Arkansas. Little Rock, Arkansas. September 17, 2015.
995. Meta-Analysis of Ketamine and Related Compounds in Depression. The Banbury Center, Cold Spring Harbor, New York. September 21, 2015.
996. Where are we with Suicide Prevention? 8<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, Miami, Florida. September 24, 2015.
997. The Psychobiology of Abuse. IV World Congress of Medical Sexology. Miami, Florida. October 10, 2015.
998. Paradise Lost: The Persistent Biological and Psychiatry Consequences of Child Abuse and Neglect. 4<sup>th</sup> German Health Research Meeting on Behavioural Disorders Related to Violence, Neglect, Maltreatment, and Abuse in Childhood and Adolescence. Berlin, Germany. October 22, 2015.
999. Molecular Neuroscience: From Genes to Mental Health. 2015 Psychopharmacology Congress. Orlando, Florida. November 12, 2015.

1000. The Neurobiology of Child Abuse and Neglect: Implications for the Pathophysiology and Treatment of Mood and Anxiety Disorders. 2015 Psychopharmacology Congress. Orlando, Florida. November 12, 2015.
1001. Where Are We with Suicide Prevention? 2016 Neurology Update & Stroke Intensive. Miami Beach, Florida. January 28, 2016.
1002. Progress in Suicide Prevention. Temple Beth Am Honest Talk About Suicide: The Silent Epidemic. Pinecrest, Florida. January 31, 2016.
1003. What Can We Do to Avoid Becoming Cranky Old Men? Pri-Med South Annual Conference. Fort Lauderdale, Florida, February 6, 2016.
1004. Prediction of Disease Vulnerability & Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. Georgia Psychiatric Physicians Association 2016 Winter CME Meeting. Atlanta, Georgia, February 13, 2016.
1005. Neurobiology of Child Abuse and Neglect. Traumatic Stress – New Mechanisms and Effective Treatment Conference. St Louis, Missouri, March 10, 2016.
1006. Rage to Know, the Rage to Heal, and the Rage to each: Success in Academia". ADAA Annual Conference, Philadelphia, Pennsylvania, March 31, 2016.
1007. The Curious Relationship between Depression and Medical Disorders: Implications for Treatment. Harvard Psychopharmacology Course, Boston, Massachusetts, April 1, 2016.
1008. Preclinical and Clinical Evidence for Alterations in CRF-Containing Circuits in Mood and Anxiety Disorders. Harvard Psychopharmacology Course Symposium, Boston, Massachusetts, April 2, 2016.
1009. The Long Term Neurobiological Consequences of Early Life Stress and its Implications for Treatment of Mood and Anxiety Disorders (Neurobiology of Child Abuse), Harvard Psychopharmacology Course Symposium, Boston, Massachusetts, April 2, 2016.
1010. The Role of Inflammations in the Pathophysiology of Depression and its Treatment. Harvard Psychopharmacology Course Symposium, Boston, Massachusetts, April 2, 2016.
1011. Progress in Suicide Prevention: Focus of Early Life Stress. Harvard Psychopharmacology Course Symposium, Boston, Massachusetts, April 2, 2016.
1012. Neurobiology of Child Abuse and Neglect: Implications for the Pathophysiology and Treatment of Mood and Anxiety Disorders. Grand Rounds, Oklahoma University Health Sciences Center, Oklahoma City, Oklahoma, April 8, 2016.
1013. Management of Treatment Resistant Depression: The Art and the Science. Oklahoma Psychiatric Association, Tulsa Oklahoma, April 9, 2016.
1014. Personalized Medicine in Mood and Anxiety Disorders. Oklahoma Psychiatric Association, PTulsa Oklahoma, April 9, 2016.
1015. The Neurobiology of Child Abuse. Institute of Living, Harford, Connecticut, April 14, 2016.

1016. The Neurobiology of Child Abuse. University of Connecticut, Farmington, Connecticut, April 15, 2016.
1017. Relationships, Humility, Science and Medicine/The Rage to Know. University of North Carolina Class Reunion, Pearls of Wisdom Presentation, Chapel Hill, North Carolina, April 16, 2016.
1018. The Neurobiology of Child Abuse. McGill University, Montreal, Canada, April 18, 2016.
1019. Prediction of Disease Vulnerability. Tuffs University Grand Rounds, Boston, Massachusetts, May 10, 2016
1020. Personalized Medicine: Depression. American Psychiatric Association 169<sup>th</sup> Annual Meeting, Atlanta, Georgia, May 15, 2016.
1021. Personalized Medicine. Association des medecins psychiatres du Quebec (AMPQ) 2016 Annual Congress, Tremblant, Quebec, June 2, 2016.
1022. The Neurobiology of Child Abuse and Neglect: Implications for the Pathophysiology and Treatment of Mood and Anxiety Disorders. University of Wisconsin-Madison Grand Rounds, Madison, Wisconsin, June 17, 2016.
1023. Risk of Mood and Anxiety Disorders. National Academies of Science. Washington, DC, July 26, 2017.
1024. Basic Neuroscience: From Molecules to Symptoms. Harvard Summer Seminars, Martha's Vineyard, Massachusetts, August 22, 2016.
1025. The Neurobiology of Child Abuse and Neglect: Paradise Lost. Harvard Summer Seminars, Martha's Vineyard, Massachusetts, August 22, 2016.
1026. Psychopharmacological Management of Schizophrenia. Harvard Summer Seminars, Martha's Vineyard, Massachusetts, August 23, 2016.
1027. Management of Bipolar Disorder: Problems and Promises. Harvard Summer Seminars, Martha's Vineyard, Massachusetts, August 23, 2016.
1028. Treatment of Major Depression: Focus on Treatment-Resistant Depression (including case studies). Harvard Summer Seminars, Martha's Vineyard, Massachusetts, August 24, 2016.
1029. Treatment of Alcohol and Substance Abuse with the Burden of Addiction. Harvard Summer Seminars, Martha's Vineyard, Massachusetts, August 24, 2016.
1030. Prediction of Disease Vulnerability and Treatment of Mood and Anxiety Disorders: Personalized Medicine in Psychiatry. Harvard Summer Seminars, Martha's Vineyard, Massachusetts, August 25, 2016.
1031. Neurobiology and Treatment of Post-Traumatic Stress Disorder. Harvard Summer Seminars, Martha's Vineyard, Massachusetts, August 25, 2016.
1032. Mood Disorders in Women: From Menarche to Menopause. Harvard Summer Seminars, Martha's Vineyard, Massachusetts, August 26, 2016.

1033. Treatment of Anxiety Disorders. Harvard Summer Seminars, Martha's Vineyard, Massachusetts, August 26, 2016.
1034. Epigenome-wide Association Study to Focus on the Development of PTSD in traumatized ED Patients. 46th Annual Conference of the International Society of Psychoneuroendocrinology. Miami, Florida, September 9, 2016.
1035. Smoking (Tobacco), PTSD and Depression. 46th Annual Conference of the International Society of Psychoneuroendocrinology. Miami, Florida, September 10, 2016.
1036. Non-sexual Interpersonal Trauma and PTSD Development. 46th Annual Conference of the International Society of Psychoneuroendocrinology. Miami, Florida, September 10, 2016.
1037. Paradise Lost: The Neurobiology of Child Abuse and Neglect. 9<sup>th</sup> Annual Chair Summit, Coral Gables, Florida, September 15, 2016.
1038. Cognitive Dysfunction in MDD: Must Patients Just Accept it as Part of the Disease? 9<sup>th</sup> Annual Chair Summit, Coral Gables, Florida, September 16, 2016.
1039. Bipolar Depression: The Dating Game. 9<sup>th</sup> Annual Chair Summit, Coral Gables, Florida, September 16, 2016.
1040. Major Depression Disorder. 9<sup>th</sup> Annual Chair Summit, Coral Gables, Florida, September 16, 2016.
1041. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. Florida Psychiatric Society Fall Meeting, Saint Petersburg, Florida, September 24, 2016.
1042. Personalized Medicine. 12<sup>th</sup> Comprehensive Review of Psychiatry, Buffalo, New York, September 29, 2016.
1043. Paradise Lost: The Neurobiology of Child Abuse and Neglect. Mayo Clinic Grand Rounds, Rochester, Minnesota, October 5, 2016.
1044. Management of Bipolar Disorder. American Physician Institute, 7th Annual MasterPsych Conference, La Jolla, California, October 7, 2016.
1045. Management of Treatment of Resistant Depression. American Physician Institute, 7th Annual MasterPsych Conference, La Jolla, California, October 7, 2016.
1046. Paradise Lost: The Neurobiology of Child Abuse and Neglect. University of Oklahoma Distinguished Lecture, Oklahoma City, Oklahoma, November 3, 2016.
1047. Biological Basis of Depression. Oklahoma Center for Neuroscience 25<sup>th</sup> Anniversary Symposium, Oklahoma City, Oklahoma, November 3, 2016.
1048. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders: Personalized Medicine in Psychiatry. University of Texas Rio Grande Grand Rounds, Edinburg, Texas, November 4, 2016.

1049. The Future of Psychiatry. 8<sup>th</sup> Annual Behavioral Health Conference, Edinburg, Texas, November 4, 2016.
1050. Prediction of Disease Vulnerability. Medical College of Georgia Grand Rounds, Augusta, Georgia, November 10, 2016.
1051. The Role of Inflammation in Depression. LIBR Institute Roadmap Workshop, Tulsa, Oklahoma, November 16, 2016.
1052. Paradise Lost: The Neurobiology of Child Abuse and Neglect. Biochemistry Seminar Series University of Miami, Miami, Florida November 18, 2016.
1053. The Role of Inflammation in the Pathophysiology of Depression and Treatment. World Stem Cell Summit, West Palm Beach, Florida, December 9, 2016.
1054. Neurobiology of Child Abuse. Trauma Symposium: Transgenerational Transmission of Trauma and Resilience at University of Miami Miller School of Medicine, January 20, 2017.
1055. Human Trafficking Key Note Address. 6<sup>th</sup> Annual SAO Forum, Miami, Florida, January 26, 2017.
1056. Paradise Lost: Neurobiology of Child Abuse. International Conference on Psychoneuroendocrinology of Depression and Anxiety Disorders, Buenos Aires, Argentina, January 31, 2017.
1057. Management of Treatment Resistant Depression. International Conference on Psychoneuroendocrinology of Depression and Anxiety Disorders, Buenos Aires, Argentina, January 31, 2017.
1058. The Neurobiology and Treatment of Post-Traumatic Stress Disorder: Problems and Promises. Nevada Psychiatric Association 22<sup>nd</sup> National Psychopharmacology Update, Las Vegas, Nevada, February 17, 2017.
1059. Beating Back the Black Dog of Depression and Suicide. Nevada Psychiatric Association 22<sup>nd</sup> National Psychopharmacology Update, Las Vegas, Nevada, February 17, 2017.
1060. Personalized Medicine in Psychiatry: Focus on Mood and Anxiety Disorders. University of Miami Grand Rounds, Miami, Florida, February 22, 2017.
1061. Paradise Lost: Th Neurobiology of Child Abuse and Neglect. University of Miami Psychology Colloquium, Miami, Florida, March 2, 2017.
1062. Paradise Lost: The Neurobiology of Child Abuse and Neglect. Israeli Society for Biological Psychiatry, Tel-Aviv, Israel, March 21, 2017.
1063. The Rage to Know, The Rage to Heal, and the Rage to Teach: Success in Academia. ADAA Annual Conference, San Francisco, California, April 6, 2017.
1064. Grantsmanship101. ADAA Annual Conference, San Francisco, California, April 6, 2017.
1065. Neurobiology and Treatment of PTSD. Harvard Psychopharmacology Master Class, Boston, Massachusetts, April 8, 2017.

1066. Personalized Medicine in Psychiatry. University of Texas Medical Branch Grand Rounds. Galveston, Texas, April 18, 2017.
1067. CRH-1 Receptor Antagonists Saga in Mood and Anxiety Disorders: The Good, the Bad and the Ugly. Society of Biological Psychiatry Annual Meeting, San Diego, California, May 20, 2017.
1068. Personalized Medicine in Psychiatry: The New Holy Grail. American Psychiatric Association 2017 Annual Meeting, San Diego, California, May 20, 2017.
1069. Rage to Know, the Rage to Teach and the Rage to Practice. APA Research Colloquium for Young Investigators, San Diego, California, May 21, 2017.
1070. Granstmannship 101. APA Research Colloquium for Young Investigators, San Diego, California, May 21, 2017.
1071. Clinical Evidence for Alterations in CRF-Containing Circuits in Mood and Anxiety Disorders. American Psychiatric Association 2017 Annual Meeting, San Diego, California, May 23, 2017.
1072. Targeting the HPA Axis and Novel Strategies to Treat Psychiatric Disorders. American Psychiatric Association 2017 Annual Meeting, San Diego, California, May 24, 2017.
1073. Paradise Lost: The Neurobiology of Child Abuse and Neglect. Department of Psychiatry Grand Rounds. State University of New York – Stonybrook, Stony Brook, New York, June 6, 2017.
1074. Management of Treatment Resistant Depression: The Art and the Science. Curso Interamericano de Actualizacion en Psiquiatria (CIAP) – 2nd Annual Advances in Diagnosis, Neurobiology, and Treatment of Psychiatric Disorders. New York, New York, June 12, 2017.
1075. Challenges in Managing Treatment-Resistant Depression. Neuroseries Live, Philadelphia, Pennsylvania, June 23, 2017.
1076. Basic Neuroscience. 28<sup>th</sup> Annual Summer Seminars Series, Psychopharmacology: A Master Class, Cape Cod, Massachusetts, July 24, 2017.
1077. Paradise Lost. 28<sup>th</sup> Annual Summer Seminars Series, Psychopharmacology: A Master Class, Cape Cod, Massachusetts, July 24, 2017.
1078. Treatment Resistant Depression. 28<sup>th</sup> Annual Summer Seminars Series, Psychopharmacology: A Master Class, Cape Cod, Massachusetts, July 25, 2017.
1079. Prediction of Disease. 28<sup>th</sup> Annual Summer Seminars Series, Psychopharmacology: A Master Class, Cape Cod, Massachusetts, July 25, 2017.
1080. PTSD. 28<sup>th</sup> Annual Summer Seminars Series, Psychopharmacology: A Master Class, Cape Cod, Massachusetts, July 26, 2017.
1081. Bipolar Disorder. 28<sup>th</sup> Annual Summer Seminars Series, Psychopharmacology: A Master Class, Cape Cod, Massachusetts, July 26, 2017.
1082. Schizophrenia. 28<sup>th</sup> Annual Summer Seminars Series, Psychopharmacology: A Master Class, Cape Cod, Massachusetts, July 27, 2017.

1083. Addiction. 28<sup>th</sup> Annual Summer Seminars Series, Psychopharmacology: A Master Class, Cape Cod, Massachusetts, July 27, 2017.
1084. Mood Disorders in Women. 28<sup>th</sup> Annual Summer Seminars Series, Psychopharmacology: A Master Class, Cape Cod, Massachusetts, July 28, 2017.
1085. Interesting Cases. 28<sup>th</sup> Annual Summer Seminars Series, Psychopharmacology: A Master Class, Cape Cod, Massachusetts, July 28, 2017.
1086. Post-Traumatic Stress Disorder. Georgia Psychiatric Physicians Association, Southern Psychiatric Association Summer, Summer CME Meeting, Amelia Island, Florida, August 5, 2017.
1087. Neurobiology of Child Abuse. Georgia Psychiatric Physicians Association, Southern Psychiatric Association Summer, Summer CME Meeting, Amelia Island, Florida, August 5, 2017.
1088. Personalized Medicine. Frontiers of Psychiatry 3 – New Directions, Mumbai, India, September 16, 2017.
1089. Treatment-Resistant Depression. Frontiers of Psychiatry 3 – New Directions, Mumbai, India, September 17, 2017.
1090. Paradise Lost. Wake Forest University Grand Rounds. Winston-Salem, North Carolina, September 22, 2017.
1091. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders and PTSD: Personalized Medicine in Psychiatry. University of Missouri – Kansas City Hoenstra Lectureship, Kansas City, Missouri, September 28, 2017.
1092. Paradise Lost: The Neurobiology of Child Abuse. 7<sup>th</sup> International Symposium INECO Foundation, Buenos Aires, Argentina, October 3, 2017.
1093. The Science of Treatment Resistant Depression. Navitor Meeting, Cambridge, Massachusetts, October 11, 2017.
1094. Paradise Lost: The Neurobiology of Child Abuse and Neglect. Advances in Clinical Psychiatry 2017: Suicide Prevention, Baylor College of Medicine, Houston, Texas. October 20, 2017.
1095. Management of Treatment Resistant Depression. Boston University School of Medicine Guest Lecture with Students, Boston Massachusetts, November 2, 2017.
1096. Prediction of Disease Vulnerability. Boston University School of Medicine Grand Rounds, Boston Massachusetts, November 2, 2017.
1097. Management of Treatment Refractory Depression: The Art and the Science. 9<sup>th</sup> Annual Behavioral Medicine Conference, McAllen, Texas, November 3, 2017.
1098. Paradise Lost: Pathophysiology of Depression and Resilience. La depression nel 2017, Bari, Italy, November 7, 2017.

1099. New and Emerging Novel Pharmacotherapies for Major Depressive Disorder, Depression Subtypes, and Treatment-Resistant Depression. Exploring New and Emerging Therapies for Depression, Miami, Florida, November 9, 2017.
1100. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders and PTSD: Personalized Medicine in Psychiatry. 10<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, New Orleans, Louisiana, November 16, 2017.
1101. The Impact of Residual Symptoms in Major Depressive Disorder. 10<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, New Orleans, Louisiana, November 17, 2017.
1102. The Brain-Body Connection. 10<sup>th</sup> Annual Chair Summit, Master Class for Neuroscience Professional Development, New Orleans, Louisiana, November 17, 2017.
1103. Post-Traumatic Stress Disorder. Neurology Update & Stroke Intensive, InterContinental Miami, Miami, Florida, January 18, 2018.
1104. Progress in Suicide Prevention. Miami VA Mental Health Summit, Miami, Florida, January 19, 2018.
1105. Prediction of Disease Vulnerability and Treatment Response in Mood Disorders and PTSD: Personalized Medicine in Psychiatry. BD2K-LINCS DCIC Systems Biology & Data Science Symposium, Miami, Florida, February 1, 2018.
1106. Prediction of Disease Vulnerability. University of California, San Diego, La Jolla, California, February 28, 2018.
1107. The Role of Inflammation at the Interface of Depression and Medical Disorders. Psychopharmacology 2018: A Master Class. Boston, Massachusetts. April 20, 2018.
1108. The Rage to Know. Research Colloquium Day 2, American Psychiatric Association Annual Meeting, New York, New York. May 6, 2018.
1109. Contributions to Personalized Medicine in Psychiatry. American Psychiatric Association Annual Meeting, New York, New York. May 7, 2018.
1110. Management of Treatment Refractory PTSD. American Psychiatric Association Annual Meeting, New York, New York. May 8, 2018.
1111. Neurobiology and Treatment of PTSD. American Psychiatric Association Annual Meeting, New York, New York. May 8, 2018.
1112. Is inflammation a Biomarker in Major Depressive Disorder? American Psychiatric Association Annual Meeting, New York, New York. May 8, 2018.